HDR-CX100/CX100E/CX105E/ CX106E/CX120

SERVICE MANUAL

LEVEL 2

Ver. 1.1 2009.02
Revision History

Revised-1

Replace the previously issued SERVICE MANUAL 9-852-642-31 with this manual.

Photo: HDR-CX100

US Model
Canadian Model
AEP Model
UK Model
North European Model
E Model
Australian Model
Hong Kong Model
Chinese Model
Korea Model
Tourist Model
Japanese Model

Link

SPECIFICATIONS	DISASSEMBLY	SCHEMATIC DIAGRAMS
MODEL INFORMATION TABLE	BLOCK DIAGRAMS	PRINTED WIRING BOARDS
SERVICE NOTE	FRAME SCHEMATIC DIAGRAM	REPAIR PARTS LIST

- Precaution on Replacing the VC-559 Board

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

MEMORY STICK ™

DIGITAL HD VIDEO CAMERA RECORDER

SONY®

HDR-CX100/CX100E/CX105E/CX106E/CX120_L2
9-852-642-32

Sony EMCS Co.

2009B0500-1

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Published by Kohda TEC

These specifications are extracted from instruction manual of HDR-CX100E/CX105E/CX106E.

ENGLISH | JAPANESE

Self Diagnosis Supported model

SPECIFICATIONS

System

Signal format: PAL color, CCIR standards HDTV 1080/50i specification

Movie recording format:
Video: HD: MPEG4-AVC/H.264 AVCHD format compatible
SD: MPEG2-PS
Audio: Dolby Digital 2ch
Dolby Digital Stereo Creator

Photo file format
: DCF Ver.2.0 Compatible
: Exif Ver.2.21 Compatible
: MPF Baseline Compatible

Recording media (Movie/Photo)

Internal memory: 8 GB

"Memory Stick PRO Duo" media
When measuring media capacity, 1 GB equals 1 billion bytes, a portion of which is used for data management.

Image device: 3.6 mm (1/5 type) CMOS sensor
Recording pixels (photo, 4:3):
Max. 4.0 mega (2 304 × 1 728) pixels*
Gross: Approx. 2 360 000 pixels
Effective (movie, 16:9):
Approx. 1 430 000 pixels
Effective (photo, 16:9):
Approx. 1 490 000 pixels
Effective (photo, 4:3):
Approx. 1 990 000 pixels

Lens:

Carl Zeiss Vario-Tessar
Optical: 10 ×
Digital: 20 ×
:120 ×(HDR-CX100E/CX105E)
:150 ×(HDR-CX106E)
Filter diameter: 30 mm (1 3/16 in.)
F1.8 ~ 2.2
Focal length
f=3.2 ~ 32 mm (5/32 ~ 1 5/16 in.)
When converted to a 35 mm still camera
For movies**: 42 ~ 497 mm (1 11/16 ~ 19 5/8 in.) (16:9)
For photos: 38 ~ 380 mm (1 1/2 ~ 15 in.) (4:3)

Color temperature: [AUTO], [ONE PUSH], [INDOOR] (3 200 K), [OUTDOOR] (5 800 K)

Minimum illumination

5 lx (lux) ([AUTO SLW SHUTTR] is set to [ON], shutter speed 1/25 second)

* The unique pixel array of Sony's ClearVid and the image processing system (BIONZ) allow still image resolution equivalent to the sizes described.

** The focal length figures are actual figures from wide angle pixel readout.

Input/Output connectors

A/V Remote Connector: Component/video and audio output jack

HDMI OUT jack: HDMI mini connector

USB jack: mini-B
(HDR-CX105E/CX106E: output only)

LCD screen

Picture: 6.7 cm (2.7 type, aspect ratio 16:9)

Total number of pixels: 211 200 (960 × 220)

General

Power requirements: DC 6.8 V/7.2 V (battery pack) DC 8.4 V (AC Adaptor)

Average power consumption: During camera recording, using LCD screen at normal brightness: HD: 3.5 W SD: 2.9 W

Operating temperature: 0 °C to 40 °C (32 °F to 104 °F)

Storage temperature: –20 °C to + 60 °C (-4 °F to +140 °F)

Dimensions (approx.): 55 × 60 ×107 mm (2 1/4 × 2 3/8 × 4 1/4 in.) (w/h/d) including the projecting parts
55 × 60 × 114 mm (2 1/4 × 2 3/8 × 4 1/2 in.) (w/h/d) including the projecting parts, and the supplied rechargeable battery pack attached

Mass (approx.): 280 g (9 oz) main unit only
330 g (11 oz) including the supplied rechargeable battery pack

AC Adaptor AC-L200C/AC-L200D

Power requirements: AC 100 V - 240 V, 50 Hz/60 Hz

Current consumption: 0.35 A - 0.18 A

Power consumption: 18 W

Output voltage: DC 8.4 V*

Operating temperature: 0 °C to 40 °C (32 °F to 104 °F)

Storage temperature: –20 °C to + 60 °C (-4 °F to +140 °F)

Dimensions (approx.): 48 × 29 × 81 mm (1 15/16 × 1 3/16 × 3 1/4 in.) (w/h/d) excluding the projecting parts

Mass (approx.): 170 g (6.0 oz) excluding the power cord (mains lead)

* See the label on the AC Adaptor for other specifications.

Rechargeable battery pack NP-FH50

Maximum output voltage: DC 8.4 V

Output voltage: DC 6.8 V

Maximum charge voltage: DC 8.4 V

Maximum charge current: 1.75 A

Capacity: 6.1 Wh (900 mAh)

Type: Li-ion

Design and specifications of your camcorder and accessories are subject to change without notice.

- Manufactured under license from Dolby Laboratories.

These specifications are extracted from instruction manual of HDR-CX100.

ENGLISH | JAPANESE

SPECIFICATIONS

System

Signal format: NTSC color, EIA standards HDTV 1080/60i specification

Movie recording format:
Video: HD: MPEG4-AVC/H.264 AVCHD format compatible
SD: MPEG2-PS
Audio: Dolby Digital 2ch
Dolby Digital Stereo Creator

Photo file format
: DCF Ver.2.0 Compatible
: Exif Ver.2.21 Compatible
: MPF Baseline Compatible

Recording media (Movie/Photo)

Internal memory: 8 GB

"Memory Stick PRO Duo" media
When measuring media capacity, 1 GB equals 1 billion bytes, a portion of which is used for data management.

Image device: 3.6 mm (1/5 type) CMOS sensor
Recording pixels (photo, 4:3):
Max. 4.0 mega (2 304 × 1 728) pixels*
Gross: Approx. 2 360 000 pixels
Effective (movie, 16:9):
Approx. 1 430 000 pixels
Effective (photo, 16:9):
Approx. 1 490 000 pixels
Effective (photo, 4:3):
Approx. 1 990 000 pixels

Lens:

Carl Zeiss Vario-Tessar
Optical: 10 ×
Digital: 20 ×, 120 ×
Filter diameter: 30 mm (1 3/16 in.)
F1.8 ~ 2.2
Focal length
f=3.2 ~ 32 mm (5/32 ~ 1 5/16 in.)
When converted to a 35 mm still camera
For movies**: 42 ~ 497 mm (1 11/16 ~ 19 5/8 in.) (16:9)
For photos: 38 ~ 380 mm (1 1/2 ~ 15 in.) (4:3)

Color temperature: [AUTO], [ONE PUSH], [INDOOR] (3 200 K), [OUTDOOR] (5 800 K)

Minimum illumination
5 lx (lux) ([AUTO SLW SHUTTR] is set to [ON], shutter speed 1/30 second)

* The unique pixel array of Sony's ClearVid and the image processing system (BIONZ) allow still image resolution equivalent to the sizes described.

** The focal length figures are actual figures from wide angle pixel readout.

Input/Output connectors

A/V Remote Connector: Component/video and audio output jack

HDMI OUT jack: HDMI mini connector

USB jack: mini-B

LCD screen

Picture: 6.7 cm (2.7 type, aspect ratio 16:9)

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General

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55 × 60 × 114 mm (2 1/4 × 2 3/8 × 4 1/2 in.) (w/h/d) including the projecting parts, and the supplied rechargeable battery pack attached

Mass (approx.): 280 g (9 oz) main unit only
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AC Adaptor AC-L200C/AC-L200D

Power requirements: AC 100 V - 240 V, 50 Hz/60 Hz

Current consumption: 0.35 A - 0.18 A

Power consumption: 18 W

Output voltage: DC 8.4 V*

Operating temperature: 0 °C to 40 °C (32 °F to 104 °F)

Storage temperature: –20 °C to + 60 °C (-4 °F to +140 °F)

Dimensions (approx.): 48 × 29 × 81 mm (1 15/16 × 1 3/16 × 3 1/4 in.) (w/h/d) excluding the projecting parts

Mass (approx.): 170 g (6.0 oz) excluding the power cord (mains lead)

* See the label on the AC Adaptor for other specifications.

Rechargeable battery pack NP-FH50

Maximum output voltage: DC 8.4 V

Output voltage: DC 6.8 V

Maximum charge voltage: DC 8.4 V

Maximum charge current: 1.75 A

Capacity: 6.1 Wh (900 mAh)

Type: Li-ion

Design and specifications of your camcorder and accessories are subject to change without notice.

- Manufactured under license from Dolby Laboratories.

自己診断搭載機種

概略仕様

システム

信号方式：NTSCカラー、EIA標準方式
HDTV 1080/60i方式

ビデオ記録方式
映像：HD画質：MPEG4-AVC/H.264
AVCHD規格準拠
SD画質：MPEG2-PS
音声：Dolby Digital 2ch
ドルビーデジタルステレオクリエーター搭載

静止画ファイルフォーマット
：DCF Ver2.0準拠
：Exif Ver2.21準拠
：MPF Baseline準拠

記録メディア(動画・静止画)
内蔵メモリー 16GB
"メモリースティック PRO デュオ"

容量は、1GBを10億バイトで計算した場合の数値です。また管理用ファイルなどを含むため、実際に使用できる 容量は若干減少する場合があります。

撮像素子：3.6 mm(1/5型) CMOSセンサー
記録画素数：静止画時 最大400万画素相当*
(2 304×1 728)(4：3時)
総画素数：約236万画素
動画時有効画素数(16：9)：約143万画素
静止画時有効画素数(16：9)：約149万画素
静止画時有効画素数(4：3)：約199万画素

ズームレンズ：カール ツァイス バリオテッサー
10倍(光学)、20倍、120倍(デジタル)
フィルター径30 mm
焦点距離：F1.8 ～ 2.2
f=3.2 ～ 32 mm
35mmカメラ換算では
動画撮影時**：
42 ～ 497 mm(16：9)
静止画撮影時：
38 ～ 380 mm(4：3)

色温度切り換え：[オート]、[ワンプッシュ]、[屋内](3 200 K)、[屋外](5 800 K)

最低被写体照度：5 lx(ルクス)([オートスロシャッタ][入]、シャッタースピード1/30秒)

* ソニー独自のクリアビッド画素配列と画像処理システムBIONZにより、静止画は表記の記録サイズを実現しています。
** 広角画素読み出しによる実動作値

入/出力端子

A/Vリモート端子：コンポーネント、映像音声出力兼用端子

HDMI OUT端子：HDMIミニコネクタ

USB端子：mini-B

液晶画面

画面サイズ：6.7 cm(2.7型、アスペクト比16：9)

総ドット数：211 200ドット
横960×縦220

電源部、その他

電源電圧：バッテリー端子入力 DC 6.8 V/7.2 V
DC端子入力 DC 8.4 V

消費電力：液晶画面使用時、明るさ標準：
HD：3.5 W
SD：2.9 W

動作温度：0 ℃～ 40 ℃

保存温度：−20 ℃～ +60 ℃

外形寸法：55×60×107 mm
(突起部を含む)(幅×高さ×奥行き)
55×60×114 mm
(突起部を含む、付属バッテリー装着状態)
(幅×高さ×奥行き)

本体質量：
約280 g(本体のみ)

撮影時総質量：
約330 g(付属バッテリー含む。)

ACアダプター AC-L200C/AC-L200D

電源：AC 100 V - 240 V、50 Hz/60 Hz

消費電力：18 W

定格出力：DC 8.4 V*

動作温度：0 ℃～ 40 ℃

保存温度：−20 ℃～ +60 ℃

外形寸法：約 48×29×81 mm(最大突起部をのぞく)(幅×高さ×奥行き)

質量：約170 g(本体のみ)

* その他の仕様についてはACアダプターのラベルをご覧ください。

リチャージャブルバッテリーパック NP-FH50

最大電圧：DC 8.4 V

公称電圧：DC 6.8 V

容量：6.1 Wh(900 mAh)

使用電池：Li-ion

本機やアクセサリーの仕様および外観は、改良のため予告なく変更することがありますが、ご了承ください。

- ドルビーラボラトリーズからの実施権に基づき製造されています。

Model information table

Model		HDR-CX100	HDR-CX100E	HDR-CX105E	HDR-CX106E	HDR-CX120
Destination		US, CND, E KR, JE	NE, E, AUS, HK, CH, JE	AEP, UK	AEP, UK	J
Color system		NTSC	PAL	PAL	PAL	NTSC
Data copy	CAM → PC	○	○	○	○	○
	PC → CAM	○	○	×	×	○
Digital zoom		20 ×, 120 ×	20 ×, 120 ×	20 ×, 120 ×	20 ×, 150 ×	20 ×, 120 ×
Internal memory (Momory Stick Micro)		8 GB	8 GB	8 GB	8 GB	16 GB

- Abbreviation
  AR : Argentine model
  AUS : Australian model
  BR : Brazilian model
  CH : Chinese model
  CND : Canadian model
  EE : East European model
  HK : Hong Kong model
  J : Japanese model
  JE : Tourist model
  KR : Korea model
  NE : North European model
  TH : Thai model

CAUTION
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.
Dispose of used batteries according to the instructions.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer.

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
4. Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
5. Check the B+ voltage to see it is at the values specified.
6. Flexible Circuit Board Repairing
   - Keep the temperature of the soldering iron around 270˚C during repairing.
   - Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
   - Be careful not to apply force on the conductor when soldering or unsoldering.

Unleaded solder

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40°C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350°C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

注意
電池の交換は，正しく行わないと破裂する恐れがあります。
電池を交換する場合には必ず同じ型名の電池又は同等品と交換してください。
使用済み電池は，取扱指示に従って処分してください。

サービス，点検時には次のことにご注意下さい。

1. 注意事項をお守りください。
   サービスのとき特に注意を要する個所については，キャビネット，シャーシ，部品などにラベルや捺印で注意事項を表示しています。これらの注意書き及び取扱説明書等の注意事項を必ずお守り下さい。
2. 指定部品のご使用を
   セットの部品は難燃性や耐電圧など安全上の特性を持ったものとなっています。従って交換部品は，使用されていたものと同じ特性の部品を使用して下さい。特に回路図，部品表に⚠印で指定されている安全上重要な部品は必ず指定のものをご使用下さい。
3. 部品の取付けや配線の引きまわしはもとどおりに
   安全上，チューブやテープなどの絶縁材料を使用したり，プリント基板から浮かして取付けた部品があります。また内部配線は引きまわしやクランパによって発熱部品や高圧部品に接近しないよう配慮されていますので，これらは必ずもとどおりにして下さい。
4. サービス後は安全点検を
   サービスのために取外したネジ，部品，配線がもとどおりになっているか，またサービスした個所の周辺を劣化させてしまったところがないかなどを点検し，安全性が確保されていることを確認して下さい。
5. チップ部品交換時の注意
   - 取外した部品は再使用しないで下さい。
   - タンタルコンデンサのマイナス側は熱に弱いため交換時は注意して下さい。
6. フレキシブルプリント基板の取扱いについて
   - コテ先温度を270℃前後にして行なって下さい。
   - 同一パターンに何度もコテ先を当てないで下さい。（3回以内）
   - パターンに力が加わらないよう注意して下さい。
7. 無鉛半田について
   無鉛半田を使用している基板には，無鉛（Lead Free）を意味するレッドフリーマークがプリントされています。
   （注意：基板サイズによっては，無鉛半田を使用していてもレッドフリーマークがプリントされていないものがあります）
   ：レッドフリーマーク
   無鉛半田には，以下の特性があります。
   - 融点が従来の半田よりも約40℃高い。
     従来の半田こてをそのまま使用することは可能ですが，少し長めにこてを当てる必要があります。
     温度調節機能のついた半田こてを使用する場合，約350℃に設定して下さい。
     注意：半田こてを長く当てすぎると，基板のパターン（銅箔）がはがれてしまうことがありますので，注意して下さい。
   - 粘性が強い
     従来の半田よりも粘性が強いため，IC端子などが半田ブリッジしないように注意して下さい。
   - 従来の半田と混ぜて使用可能
     無鉛半田には無鉛半田を追加するのが最適ですが，従来の半田を追加しても構いません。

1. SERVICE NOTE

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1-1. POWER SUPPLY DURING REPAIRS

In this unit, about 10 seconds after power is supplied to the battery terminal using the regulated power supply (8.4 V), the power is shut off so that the unit cannot operate.
These following method is available to prevent this.

Method:
Use the AC power adaptor (AC-L200C/L200D).

1-2. PRECAUTION ON REPLACING THE INTERNAL MEMORY (MS7304)

When replacing the internal memory (MS7304 that has been inserted in the MS-419 board), start the Adjust Manual in the Adjust Station and execute the “INTERNAL MEMORY ADJUSTMENTS”.

1-3. PRECAUTION ON REPLACING THE VC-559 BOARD

DESTINATION DATA

When you replace to the repairing board, the written destination data of repairing board also might be changed to original setting.
Start the Adjust Manual in the Adjust Station and execute the “DESTINATON DATA WRITE”.

RESTORE DATA

When you replace to the repairing board, get the data from the former one.
Start the Adjust Manual in the Adjust Station and perform “RESTORE DATA” to get the data.
The data getting for this model is as follows.

- USB SERIAL No.

USB SERIAL No.

The set is shipped with a unique ID (USB Serial No.) written in it.
This ID has not been written in a new board for service, and therefore it must be entered after the board replacement.
Start the Adjust Manual in the Adjust Station and execute the “USB SERIAL No. INPUT”.

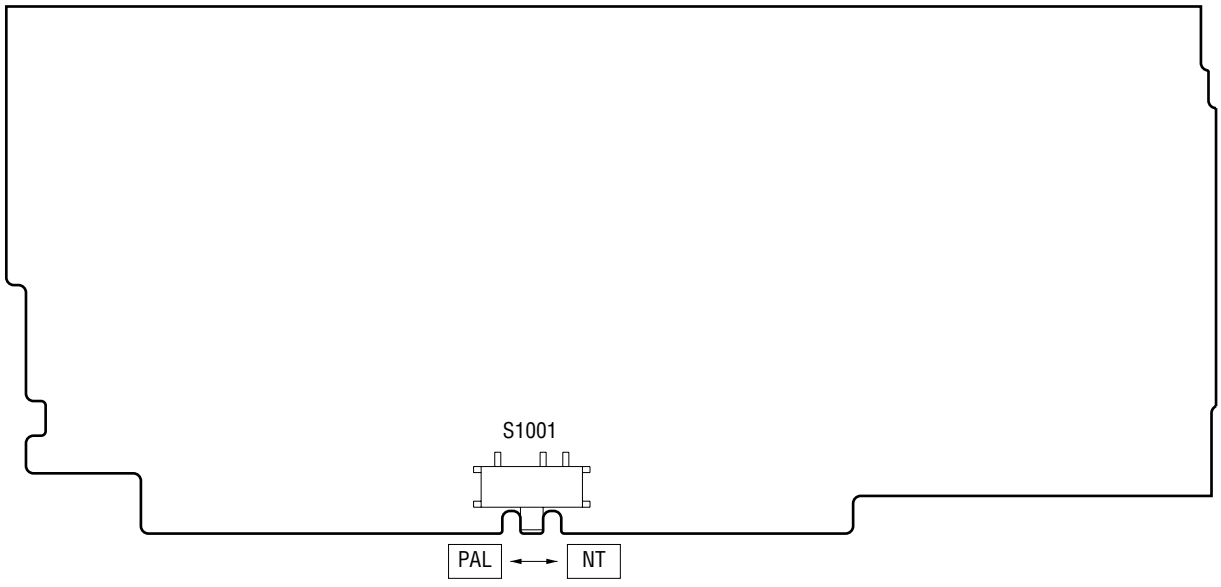
PAL/NTSC SETTING

Set S1001 of the VC-559 board to PAL or NTSC at the following positions.
The image doesn’t reflect at a wrong setting, it is necessary to do a correct setting.

Switch setting

S1001 ..... PAL (HDR-CX100E/CX105E/CX106E)
NTSC (HDR-CX100/CX120)

VC-559 BOARD (SIDE B)



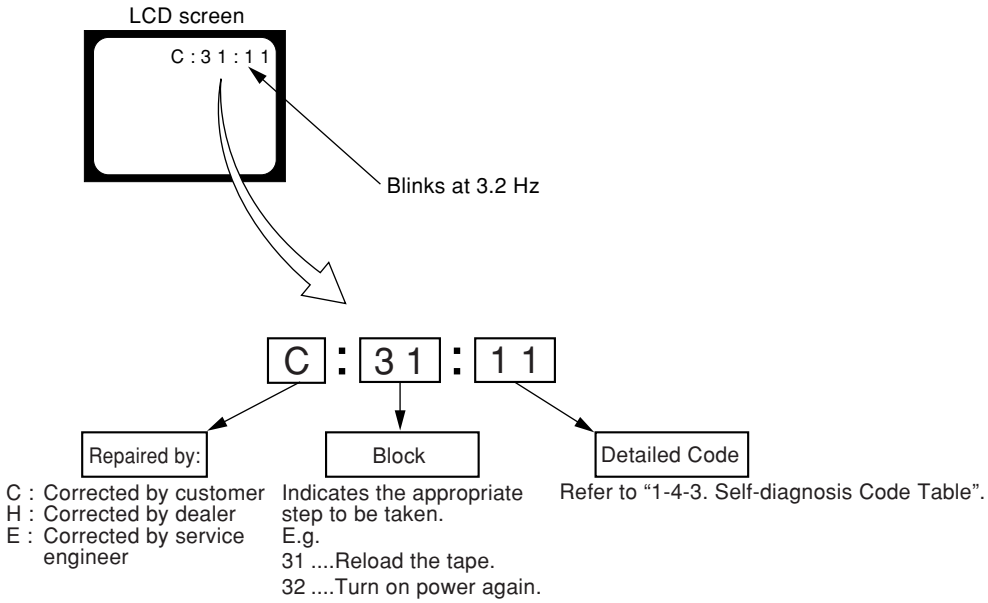
1-4. SELF-DIAGNOSIS FUNCTION

1-4-1. Self-diagnosis Function

When problems occur while the unit is operating, the self-diagnosis function starts working, and displays on the LCD screen what to do.
Details of the self-diagnosis functions are provided in the Instruction manual.

1-4-2. Self-diagnosis Display

When problems occur while the unit is operating, the counter of the viewfinder or LCD screen shows a 4-digit display consisting of an alphabet and numbers, which blinks at 3.2 Hz. This 5-character display indicates the “repaired by:”, “block” in which the problem occurred, and “detailed code” of the problem.


LCD screen
C : 3 1 : 1 1
Blinks at 3.2 Hz
C : 31 : 11
Repaired by:
Block
Detailed Code
C : Corrected by customer
H : Corrected by dealer
E : Corrected by service engineer
Indicates the appropriate step to be taken.
E.g.
31 ....Reload the tape.
32 ....Turn on power again.
Refer to “1-4-3. Self-diagnosis Code Table”.

1-4-3. Self-diagnosis Code Table

Self-diagnosis Code					Symptom/State	Correction
Repaired by:	Block Function		Detailed Code			
C	0	4	0	0	Non-standard battery is used.	Use the InfoLITHIUM battery.
C	1	3	0	1	"Memory Stick Duo" is unformatted. "Memory Stick Duo" is broken.	Format the "Memory Stick Duo". Insert a new "Memory Stick Duo".
C	1	3	0	2	Access error	Remove the power source. Reconnect it again and operate your camcorder again.
E	2	0	0	0	Flash memory data are rewritten.	Make flash memory data correct value. (Note 1)
E	3	1	0	0	Drive fault	Inspect or replacement of the "INTERNAL MEMORY (MS7304)"
E	6	1	0	0	Difficult to adjust focus (Cannot initialize focus.)	Inspect the lens block focus reset sensor (pin ⑧ of CN5201 on the LD-247 board) when focusing is performed when the focus buttons of the touch panel are pressed in the focus manual mode, and the focus motor driver circuit (IC5206 on the LD-247 board) when focusing is not performed.
E	6	1	1	0	Zoom operations fault (Cannot initialize zoom lens.)	Inspect the lens block zoom reset sensor (pin ⑩ of CN5201 on the LD-247 board) when zooming is performed when the zoom lever is operated, and the zoom motor drive circuit (IC5206 on the LD-247 board) when zooming is not performed.
E	6	1	1	1	The abnormalities in initialization of the focus lens and the abnormalities in initialization of the zoom lens occurred simultaneously.	Check whether the flexible board of the lens is broken, and check whether it is inserted imperfectly. If there is no problem in the flexible board, inspect the focus/zoom motor drive circuit (IC5206 on the LD-247 board).
E	6	2	0	0	Handshake correction function does not work well. (With PITCH angular velocity sensor output stopped.)	Inspect PITCH/YAW angular velocity sensors (SE6601 on the JK-386 board) peripheral circuits.
E	6	2	0	1	Handshake correction function does not work well. (With YAW angular velocity sensor output stopped.)	Inspect PITCH/YAW angular velocity sensors (SE6601 on the JK-386 board) peripheral circuits.
E	9	4	0	0	Fault of writing to or erasing the flash memory	Inspect the flash memory (IC2101 on the VC-559 board).
E	9	4	0	1	"INTERNAL MEMORY" is unformatted. "INTERNAL MEMORY" is broken.	Format the "INTERNAL MEMORY (MS7304)". Insert a new "INTERNAL MEMORY (MS7304)". (Note 2)

Note 1: Start the Adjust Manual in the Adjust Station and refer to the "DESTINATON DATA WRITE".
Note 2: Start the Adjust Manual in the Adjust Station and refer to the "INTERNAL MEMORY ADJUSTMENTS".

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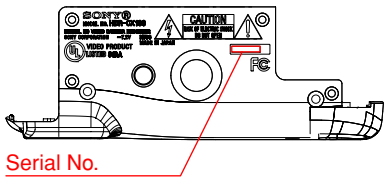
1-5. PRECAUTION ON REPLACING THE CABINET (L)

1-5-1. Precaution on ordering the Cabinet (L)

The model display adopts the laser printing method.
Therefore, the Cabinet (L) for replacement differs depending on the destination.
As similar displays are provided, choose the suitable one for order.

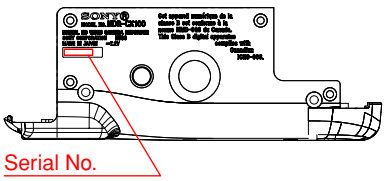
Note: After replacing the Cabinet (L), the serial number for it will be changed to the one exclusive for service use.
Inform a customer of the serial number change and change the serial number in the repair data.

HDR-CX100 (US)



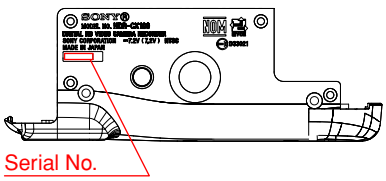
Part No.	Description
A-1706-102-A	CABINET (L (CX100U)), SERVICE

HDR-CX100 (CND)



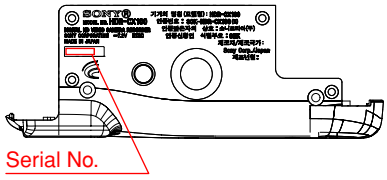
Part No.	Description
A-1706-104-A	CABINET (L (CX100CA)), SERVICE

HDR-CX100 (E, JE)



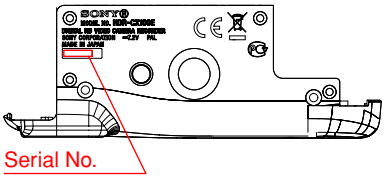
Part No.	Description
A-1706-105-A	CABINET (L (CX100E2)), SERVICE

HDR-CX100 (KR)



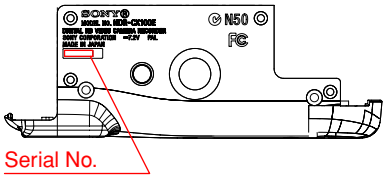
Part No.	Description
A-1706-103-A	CABINET (L (CX100K)), SERVICE

HDR-CX100E (NE)



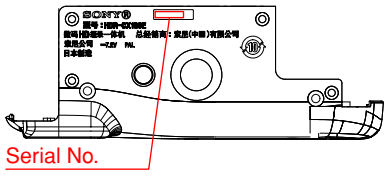
Part No.	Description
A-1706-106-A	CABINET (L (CX100E CE)), SERVICE

HDR-CX100E (E, AUS, HK, JE)



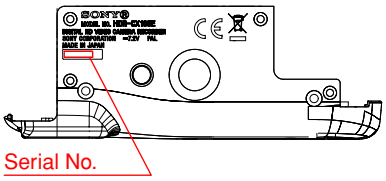
Part No.	Description
A-1706-107-A	CABINET (L (CX100E E3)), SERVICE

HDR-CX100E (CH)



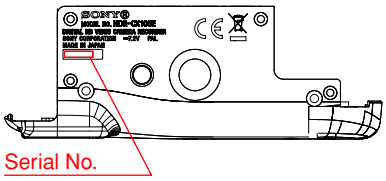
Part No.	Description
A-1706-108-A	CABINET (L (CX100E CN)), SERVICE

HDR-CX105E (AEP, UK)



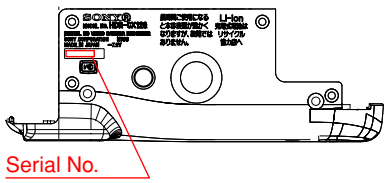
Part No.	Description
A-1706-109-A	CABINET (L (CX105E CE)), SERVICE

HDR-CX106E (AEP, UK)



Part No.	Description
A-1706-110-A	CABINET (L (CX106E CE)), SERVICE

HDR-CX120 (J)

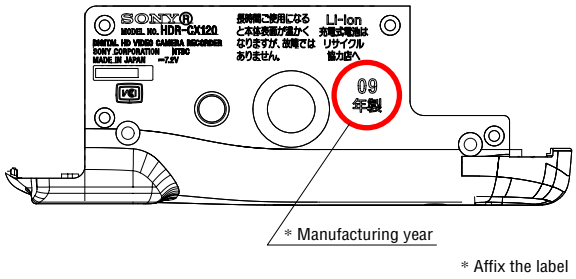


Part No.	Description
A-1706-101-A	CABINET (L (CX120J)), SERVICE

1-5-2. Precaution on Replacing the Cabinet (L) for J Model

The year of manufacture on the labels should be the same as the previous Cabinet (L) (circled portions shown on the below).
Example: For the figure below, attach the “Made of 09 years” label.
* The replacement label and “inset (how to affix)” are supplied together with Cabinet (L) for service.

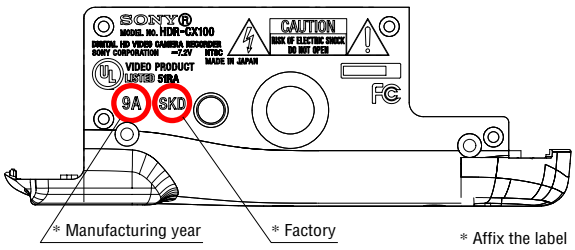
HDR-CX120 (J)



1-5-3. Precaution on Replacing the Cabinet (L) for US Model

The date of manufacture and the manufacturer on the labels should be the same as the previous Cabinet (L) (circled portions shown on the below).
Example: For the figure below, attach the “9A” and “SKD” labels.
* The replacement labels and “inset (how to affix)” are supplied together with Cabinet (L) for service.

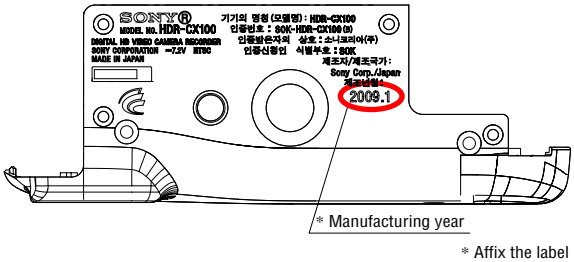
HDR-CX100 (US)



1-5-4. Precaution on Replacing the Cabinet (L) for KR Model

The date of manufacture on the labels should be the same as the previous Cabinet (L) (circled portions shown on the below).
Example: For the figure below, attach the “2009.1” label.
* The replacement label and “inset (how to affix)” are supplied together with Cabinet (L) for service.

HDR-CX100 (KR)



1. SERVICE NOTE

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1-1. 修理時の電源供給について

本機では，安定化電源（8.4Vdc）からバッテリ端子に電源を供給した場合，約10秒後にシャットオフし，動作しなくなります。
これを避けるため，下記の方法を用いてください。

方法：
DC入力端子を使用する。（ACアダプタ（AC-L200C/L200D）を使用する。）

1-2. 内蔵メモリー(MS7304)交換時の注意

内蔵メモリー（MS-419基板に挿入されたMS7304）を交換の際は，
Adjust StationからAdjust Manualを起動させて「INTERNAL MEMORY ADJUSTMENTS」を実行させてください。

1-3. VC-559基板交換時の注意

仕向けデータ

補修用基板と交換する時，補修用基板に書かれている仕向けデータは元の設定と違っている場合があります。
Adjust StationからAdjust Manualを起動させて「DESTINATION DATA WRITE」を実行させてください。

リストアデータ

補修用基板と交換する時，交換前の基板よりデータを取得してください。
データの取得はAdjust StationからAdjust Manualを起動させて「RESTORE DATA」を実行させてください。
本機で取得されるデータは下記になります。

- USB SERIAL No.

USBシリアルNo.

セットは，1台毎に異なる固有のID（USB Serial No.）を書き込んだ後，出荷されています。
新品の補修用基板には，このIDが書き込まれていないので，基板交換後にIDを入力する必要があります。
Adjust StationからAdjust Manualを起動させて「USB SERIAL No. INPUT」を実行させてください。

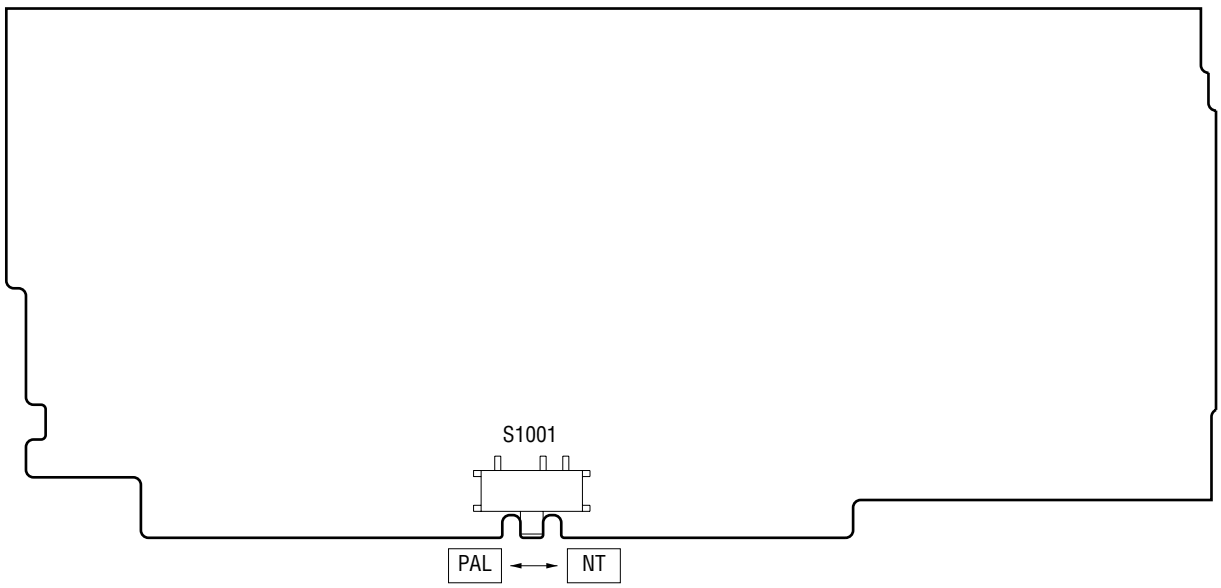
PAL/NTSC 設定

VC-559ボードのS1001を以下のようにPALまたはNTSCに設定してください。
誤った設定の場合映像が映らないため，正しい設定をする必要があります。

スイッチ設定

S1001 ..... PAL（HDR-CX100E/CX105E/CX106E）
NTSC（HDR-CX100/CX120）

VC-559 BOARD (SIDE B)



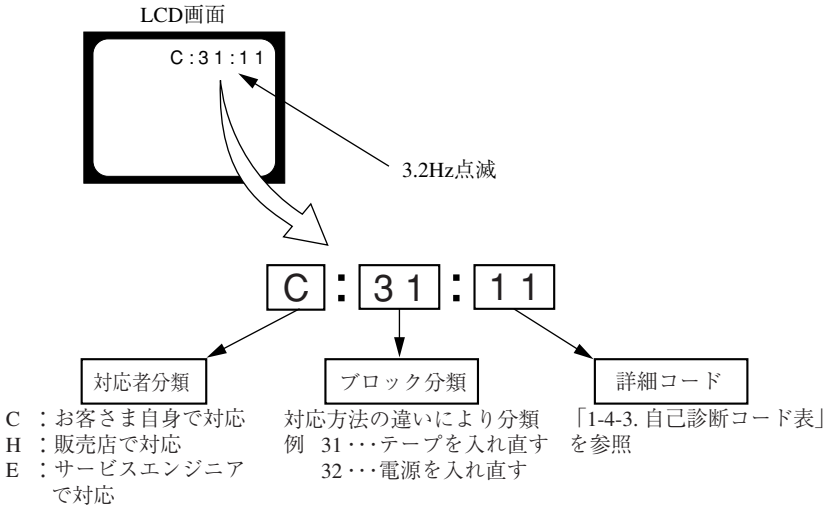
1-4. 自己診断機能

1-4-1. 自己診断機能について

本機の動作に不具合が生じたとき，自己診断機能が働き，LCD画面に，どう処置したらよいか判断できる表示を行います。自己診断機能については取扱説明書にも掲載されています。

1-4-2. 自己診断表示

本機の動作に不具合が生じたとき，ビューファインダまたはLCD画面のカウンタ表示部分がアルファベットと数字の4桁表示になり，3.2Hzで点滅します。この5文字の表示によって対応者分類および不具合の生じたブロックの分類，不具合の詳細コードを示します。



1-4-3. 自己診断コード表

自己診断コード			症状／状態	対応／方法
対応者	ブロック機能	詳細コード		
C	0 4	0 0	標準以外のバッテリを使用している	インフォリチウムバッテリを使用する。
C	1 3	0 1	フォーマットしていない“メモリーステック デュオ”を入れた“メモリーステック デュオ”が壊れている	“メモリーステック デュオ”をフォーマットする。 新しい“メモリーステック デュオ”に交換する。
C	1 3	0 2	アクセスエラー	電源を外し，再度入れ直してから操作する。
E	2 0	0 0	フラッシュメモリが書き換えられている	フラッシュメモリのデータを元の値に戻す。（注1）
E	3 1	0 0	ドライブ不良	“内蔵メモリー（MS7304）”を点検または交換する。
E	6 1	0 0	フォーカスが合いにくい（フォーカスの初期化ができない）	タッチパネルでフォーカス操作をしたときにフォーカス動作をすれば，レンズブロックのフォーカスリセットセンサ（LD-247基板CN5201 ⑧ピン）を点検する。フォーカス動作をしなければフォーカスモータ駆動回路（LD-247基板IC5206）を点検する。
E	6 1	1 0	ズーム動作の異常（ズームレンズの初期化ができない）	ズームレバーを操作したときにズーム動作をすれば，レンズブロックのズームリセットセンサ（LD-247基板CN5201 ⑩ピン）を点検する。ズーム動作をしなければズームモータ駆動回路（LD-247基板IC5206）を点検する。
E	6 1	1 1	フォーカス，ズーム異常	フレキ切れ，半差し等の点検を行う。問題がない場合はフォーカス/ズームモータ駆動IC（LD-247基板IC5206）周辺回路を点検する。
E	6 2	0 0	手振れ補正が効きにくい（PITCH角速度センサ出力張り付き）	PITCH/YAW角速度センサ（JK-386基板SE6601）周辺回路を点検する。
E	6 2	0 1	手振れ補正が効きにくい（YAW角速度センサ出力張り付き）	PITCH/YAW角速度センサ（JK-386基板SE6601）周辺回路を点検する。
E	9 4	0 0	フラッシュメモリの書込み/消去動作不良	フラッシュメモリ（VC-559基板IC2101）を点検する。
E	9 4	0 1	フォーマットしていない“内蔵メモリー”を入れた“内蔵メモリー”が壊れている	“内蔵メモリー（MS7304）”をフォーマットする。 新しい“内蔵メモリー（MS7304）”に交換する。（注2）

注1： Adjust StationからAdjust Manualを起動させて「DESTINATION DATA WRITE」を参照してください。
注2： Adjust StationからAdjust Manualを起動させて「INTERNAL MEMORY ADJUSTMENTS」を実行させてください。

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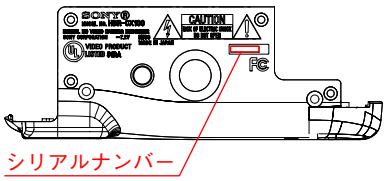
1- 5. キャビネット(L)交換時の注意

1-5-1. キャビネット(L)注文時の注意

機種の表示部はレーザー印字方式を採用しております。
この為，交換用のキャビネット（L）は機種，仕向けにより異なります。類似の表示もありますので，該当するものを選んで注文してください。

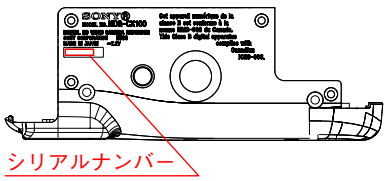
注意：キャビネット（L）交換後はシリアルナンバーがサービス専用のシリアルナンバーに変更されます。お客様への案内と修理データのシリアルナンバー変更を行ってください。

HDR-CX100 (US仕向)



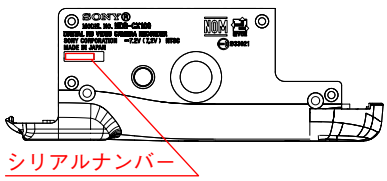
部品コード　部　品　名
A-1706-102-A　ｻｰﾋﾞｽ用 ｷｬﾋﾞ L (CX100U)

HDR-CX100 (CND仕向)



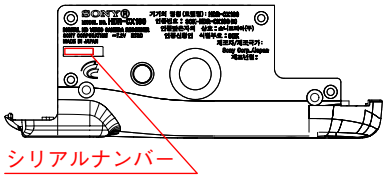
部品コード　部　品　名
A-1706-104-A　ｻｰﾋﾞｽ用 ｷｬﾋﾞ L (CX100CA)

HDR-CX100 (E, JE仕向)



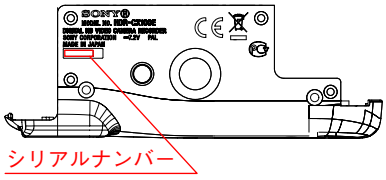
部品コード　部　品　名
A-1706-105-A　ｻｰﾋﾞｽ用 ｷｬﾋﾞ L (CX100E2)

HDR-CX100 (KR仕向)



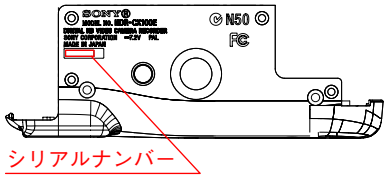
部品コード　部　品　名
A-1706-103-A　ｻｰﾋﾞｽ用 ｷｬﾋﾞ L (CX100K)

HDR-CX100E (NE仕向)



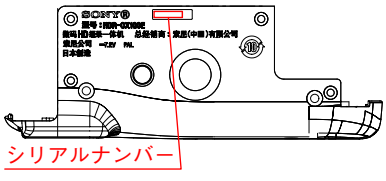
部品コード　部　品　名
A-1706-106-A　ｻｰﾋﾞｽ用 ｷｬﾋﾞ L (CX100E CE)

HDR-CX100E (E, AUS, HK, JE仕向)



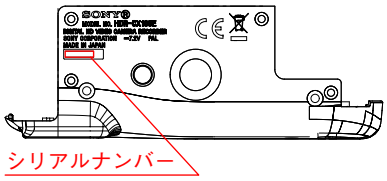
部品コード　部　品　名
A-1706-107-A　ｻｰﾋﾞｽ用 ｷｬﾋﾞ L (CX100E E3)

HDR-CX100E (CH仕向)



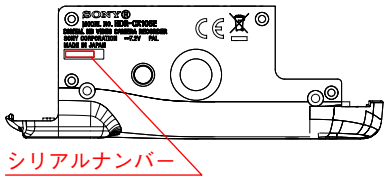
部品コード　部　品　名
A-1706-108-A　ｻｰﾋﾞｽ用 ｷｬﾋﾞ L (CX100E CN)

HDR-CX105E (AEP, UK仕向)



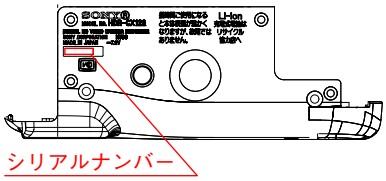
部品コード　部　品　名
A-1706-109-A　ｻｰﾋﾞｽ用 ｷｬﾋﾞ L (CX105E CE)

HDR-CX106E (AEP, UK仕向)



部品コード　部　品　名
A-1706-110-A　ｻｰﾋﾞｽ用 ｷｬﾋﾞ L (CX106E CE)

HDR-CX120 (J仕向)

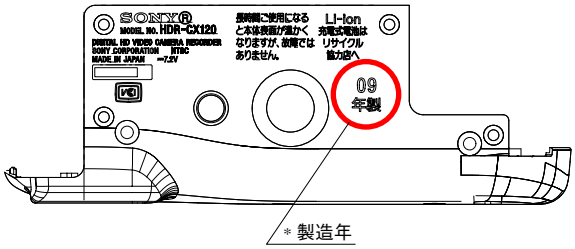


部品コード　部　品　名
A-1706-101-A　ｻｰﾋﾞｽ用 ｷｬﾋﾞ L (CX120J)

1-5-2. 日本向けモデルのキャビネット(L)交換時の注意

交換前のキャビネット（L）に印字されている“製造年（下図の○部の表示）”と同じ表示のラベルを新しいキャビネット（L）に貼付けてください。
例：下図では，“09年製”のラベルを貼る
* ラベルは，サービス用キャビネット（L）部組に「投げ込み（ラベル貼り方）」を含めて同梱されています。

HDR-CX120 (J仕向)

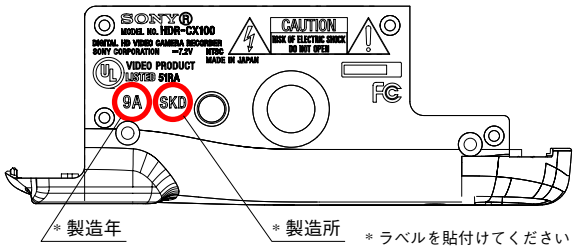


＊ラベルを貼付けてください

1-5-3. US向けモデルのキャビネット(L)交換時の注意

交換前のキャビネット（L）に印字されている“製造年月（下図の○部の表示）”と同じ表示のラベルを新しいキャビネット（L）に貼付けてください。
例：下図では，“9A”と“SKD”のラベルを貼る
* ラベルは，サービス用キャビネット（L）に「投げ込み（ラベル貼り方）」を含めて同梱されています。

HDR-CX100 (US仕向)

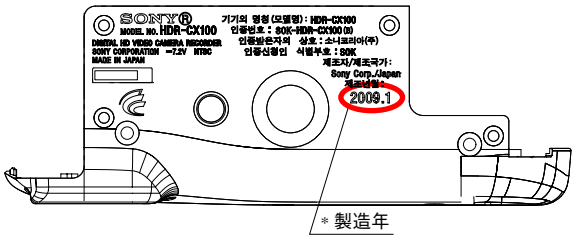


＊ラベルを貼付けてください

1-5-4. 韓国向けモデルのキャビネット(L)交換時の注意

交換前のキャビネット（L）に印字されている“製造年月（下図の○部の表示）”と同じ表示のラベルを新しいキャビネット（L）に貼付けてください。
例：下図では，“2009.1”のラベルを貼る
* ラベルは，サービス用キャビネット（L）に「投げ込み（ラベル貼り方）」を含めて同梱されています。

HDR-CX100 (KR仕向)



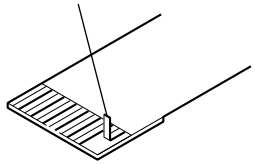
＊ラベルを貼付けてください

2. DISASSEMBLY

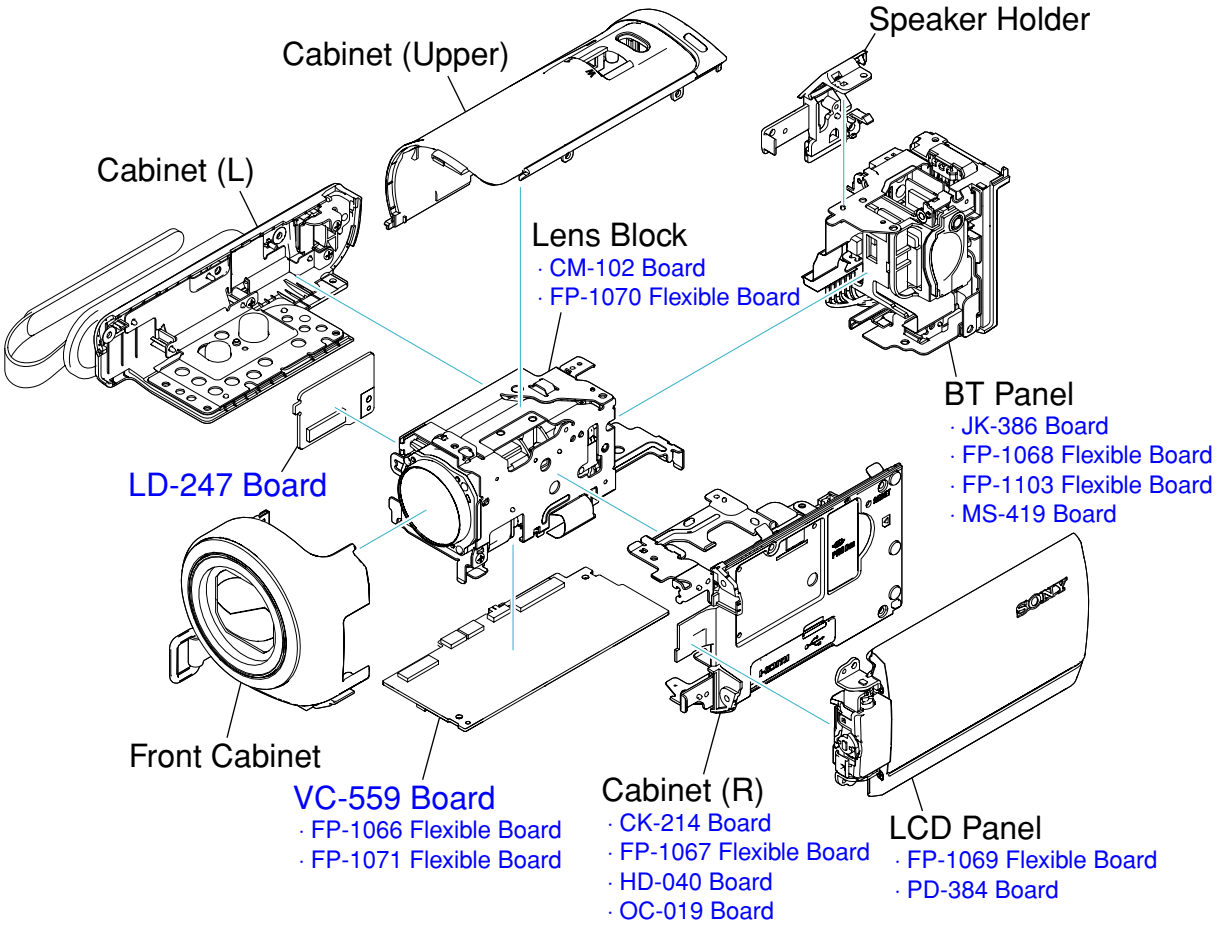
NOTE FOR REPAIR

- Make sure that the flat cable and flexible board are not cracked of bent at the terminal.
  Do not insert the cable insufficiently nor crookedly.
- When remove a connector, don't pull at wire of connector. It is possible that a wire is snapped.
- When installing a connector, don't press down at wire of connector.
  It is possible that a wire is snapped.

Cut and remove the part of gilt which comes off at the point.
(Be careful or some pieces of gilt may be left inside)



2-1. IDENTIFYING PARTS



- DISASSEMBLY FLOW -

2-2-1. OVERALL SECTION
- Cabinet (L)
- Cabinet (Upper)

2-2-2. FRONT CABINET SECTION
- Front Cabinet
- Cabinet (R)

2-2-3.CABINET (R) SECTION
- LCD Panel
- OC-019 Board
- HD-040 Board

2-2-5. MAIN BOARD SECTION
- BT Panel
- VC-559 Board
- Lens Block

2-2-4.LCD PANEL SECTION
- Hinge Block
- PD-384 Board
- LCD

2-2. DISASSEMBLY

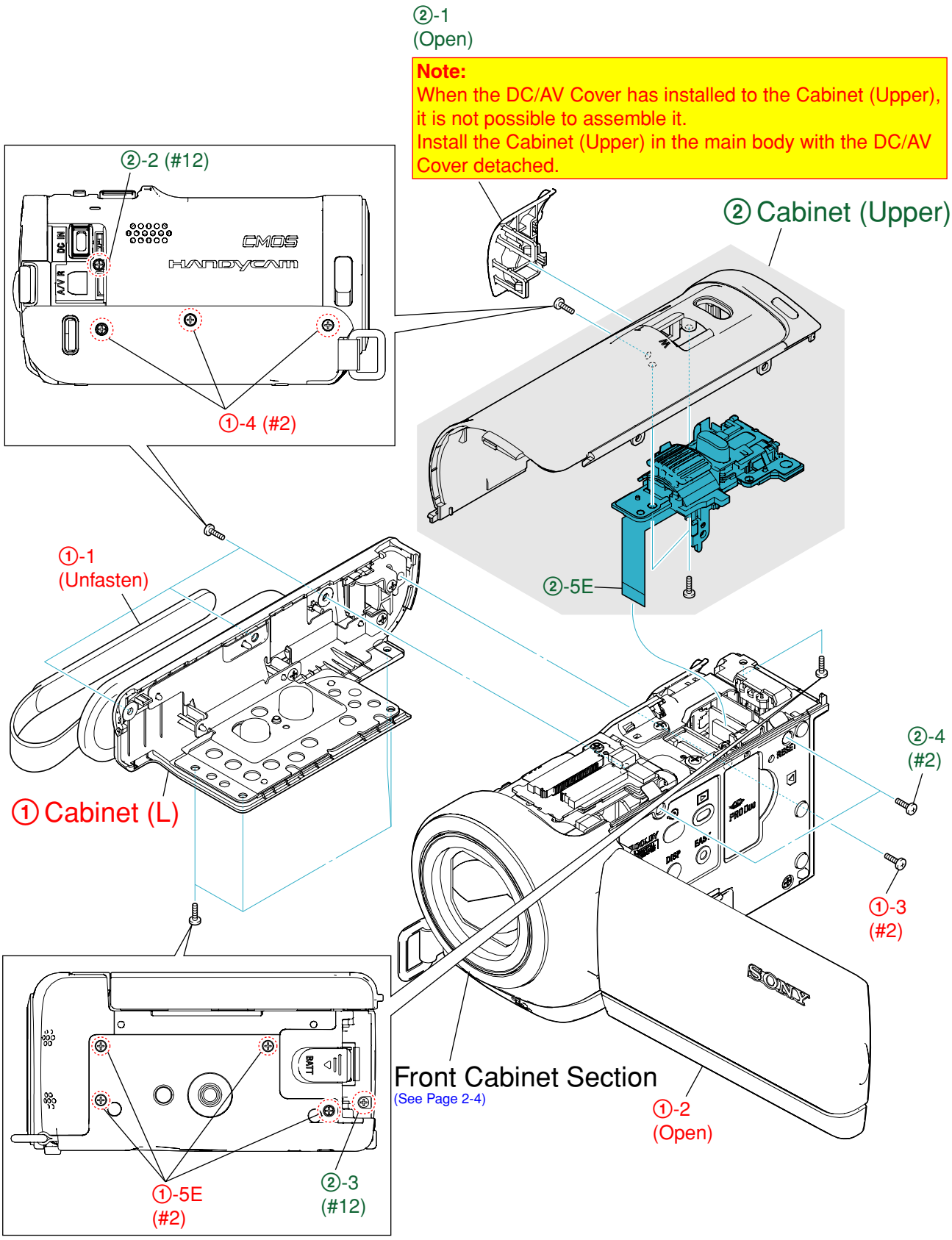
EXPLODED VIEW HARDWARE LIST

2-2-1. OVERALL SECTION

Follow the disassembly in the numerical order given.

① Cabinet (L) (①-1 to ①-5)

② Cabinet (Upper) (②-1 to ②-5)



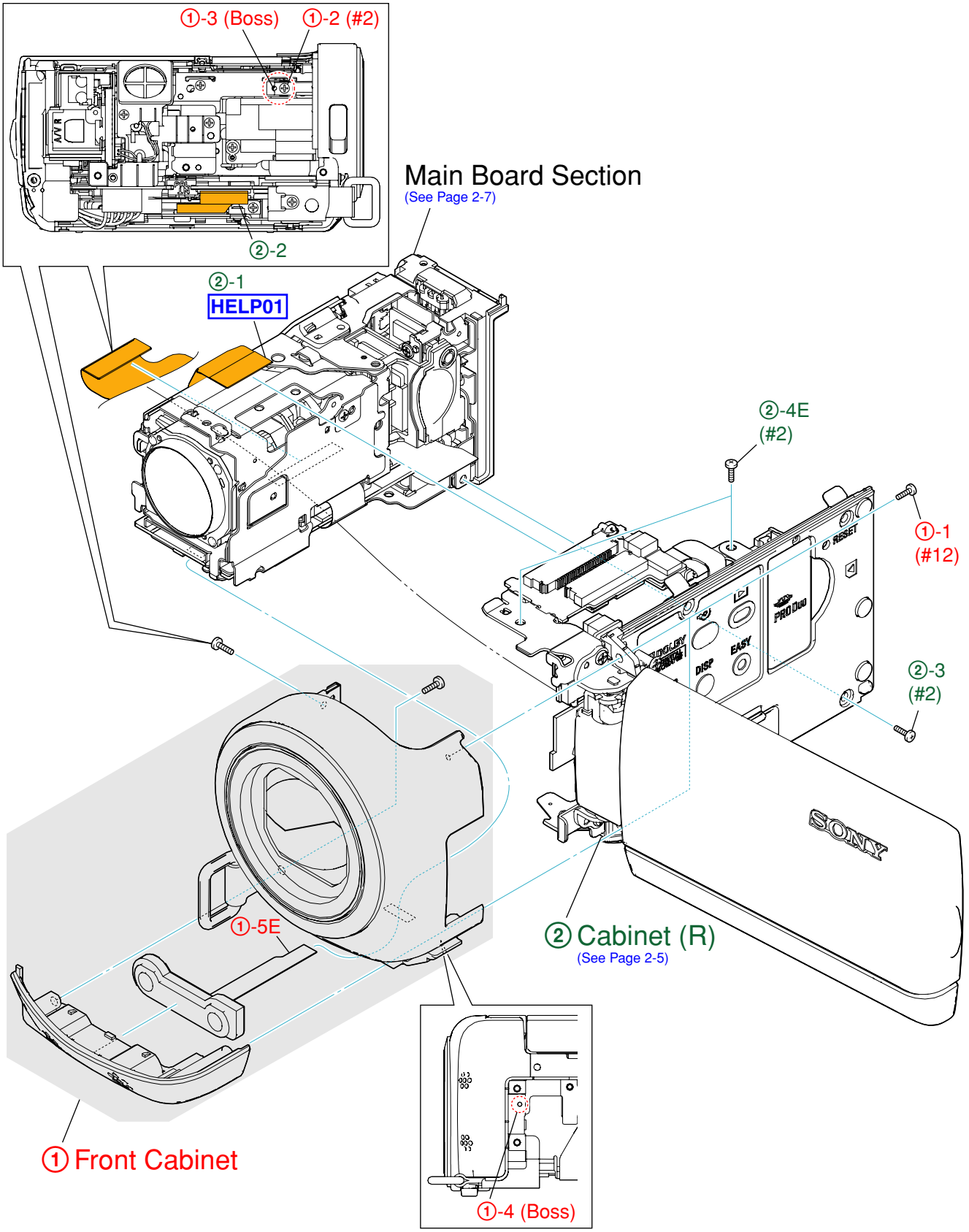
2-2-2. FRONT CABINET SECTION

Follow the disassembly in the numerical order given.

① Front Cabinet (①-1 to ①-5)

② Cabinet (R) (②-1 to ②-4)

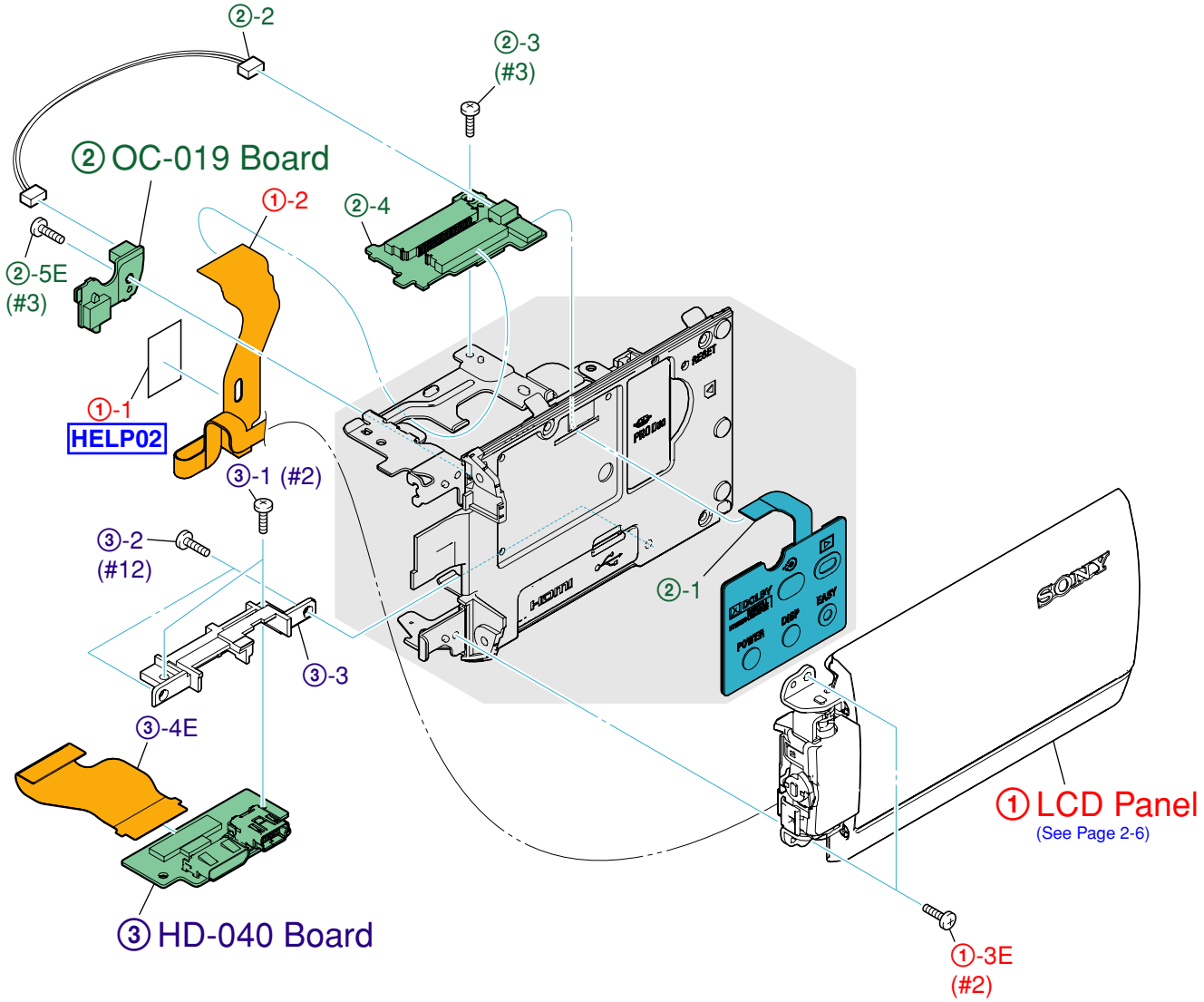
EXPLODED VIEW HARDWARE LIST



2-2-3. CABINET (R) SECTION

EXPLODED VIEW HARDWARE LIST

Follow the disassembly in the numerical order given.
① LCD Panel (①-1 to ①-3)
② OC-019 Board (②-1 to ②-5)
③ HD-040 Board (③-1 to ③-4)

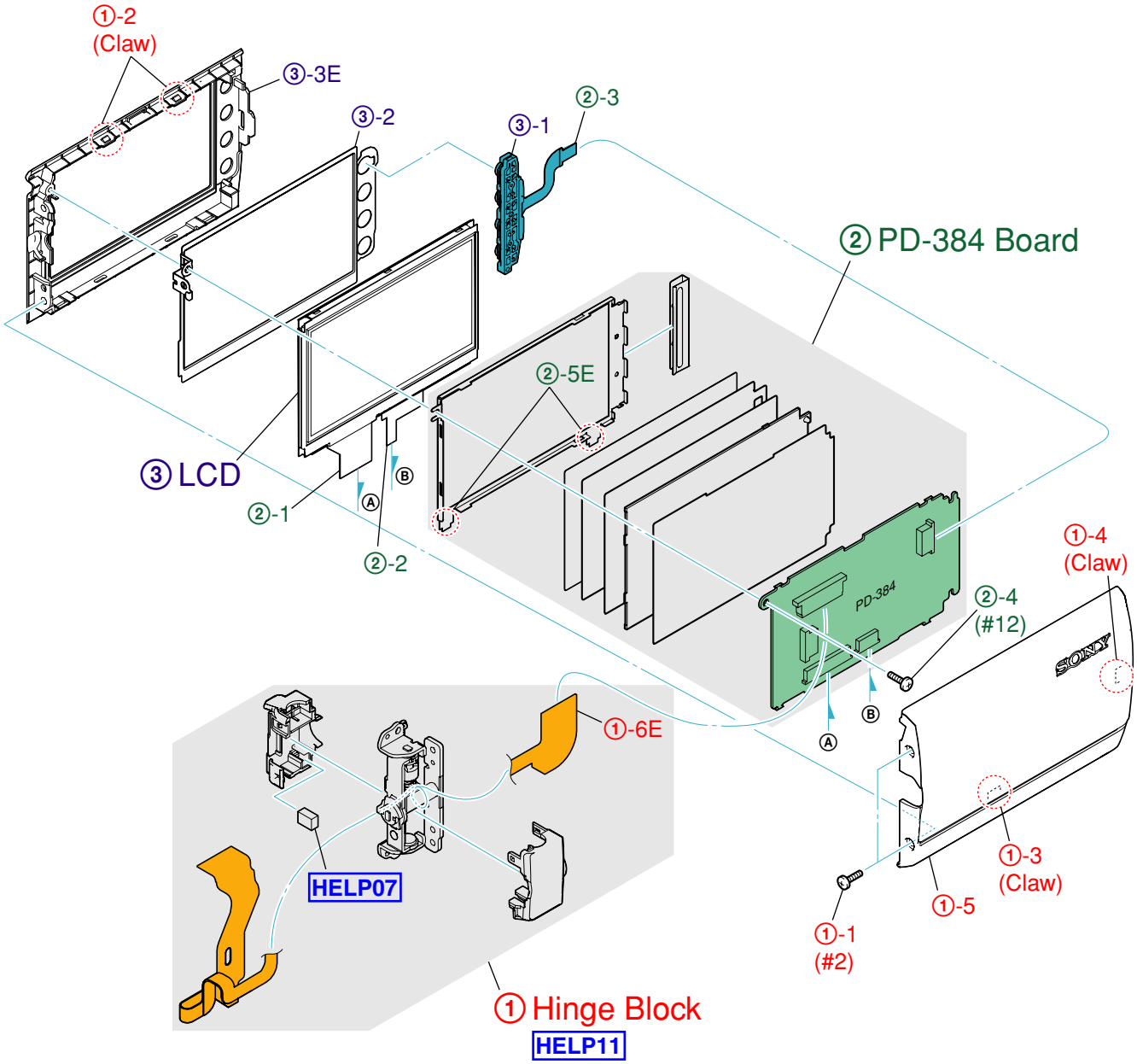


2-2-4. LCD PANEL SECTION

EXPLODED VIEW HARDWARE LIST

Follow the disassembly in the numerical order given.

① Hinge Block (①-1 to ①-6)
② PD-384 Board (②-1 to ②-5)
③ LCD (③-1 to ③-3)

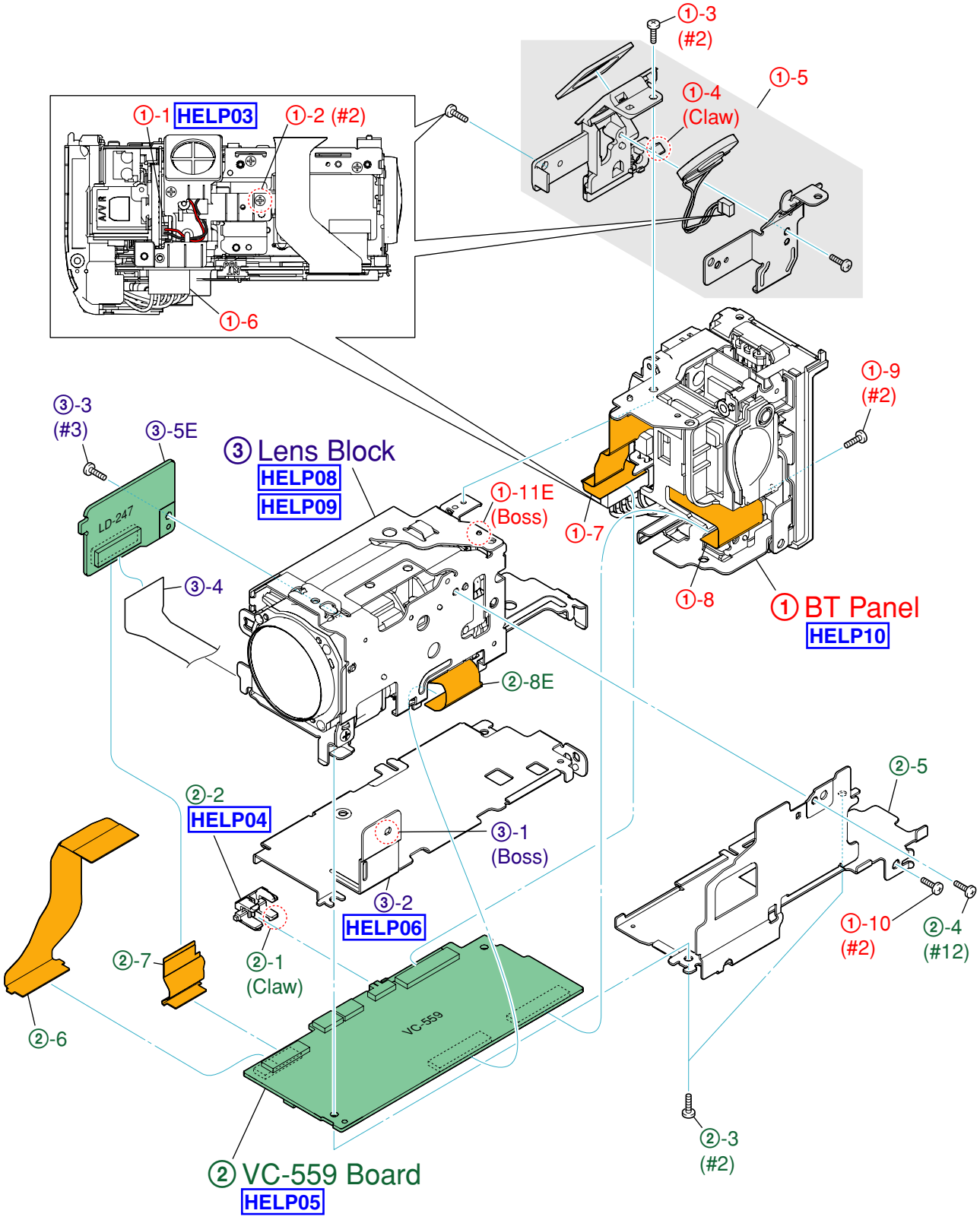


2-2-5. MAIN BOARD SECTION

EXPLODED VIEW HARDWARE LIST

Follow the disassembly in the numerical order given.

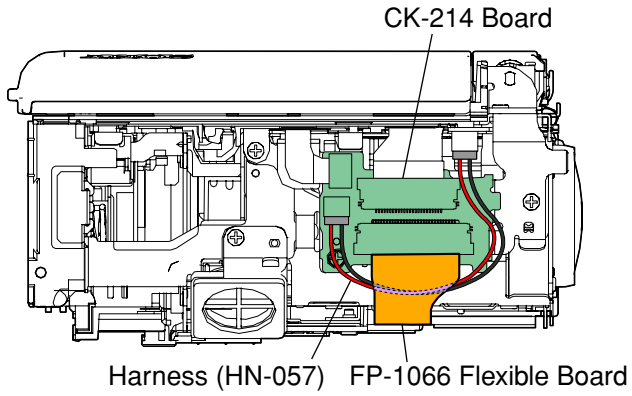
① BT Panel (①-1 to ①-11)
② VC-559 Board (②-1 to ②-8)
③ Lens Block (③-1 to ③-5)



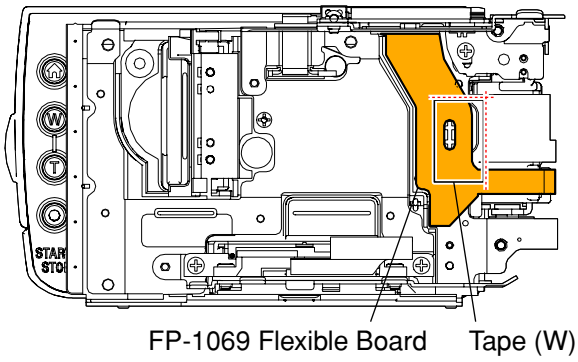
HELP

Sheet attachment positions and procedures of processing the flexible boards/harnesses are shown.

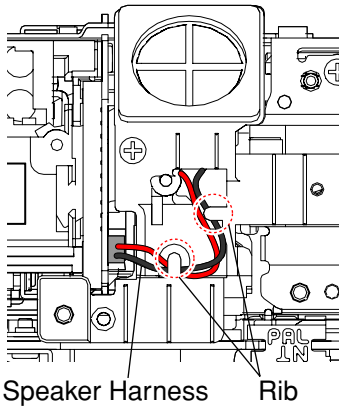
HELP01: Harness (HN-057)



HELP02: Tape (W)

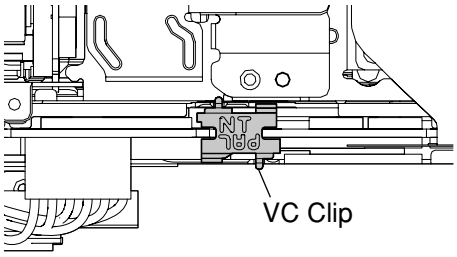


HELP03: Speaker Harness

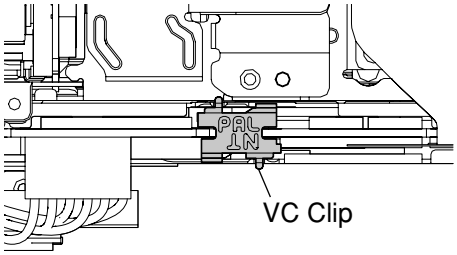


HELP04: VC Clip

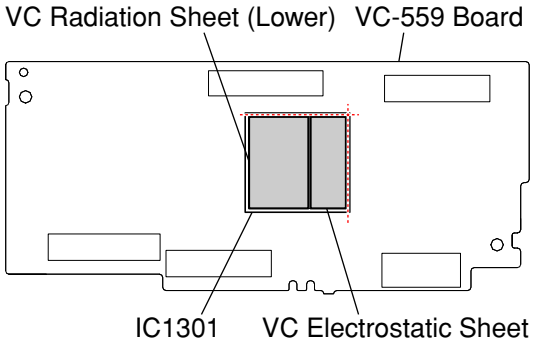
NTSC Model



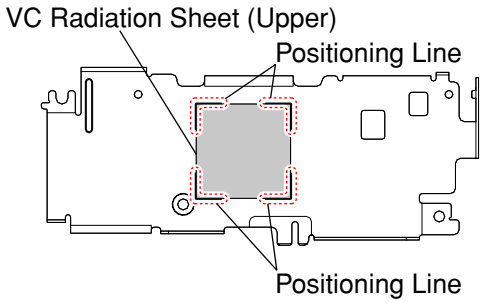
PAL Model



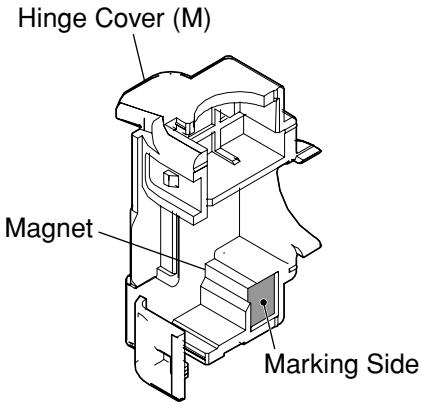
HELP05: VC Radiation Sheet (Lower)
VC Electrostatic Sheet



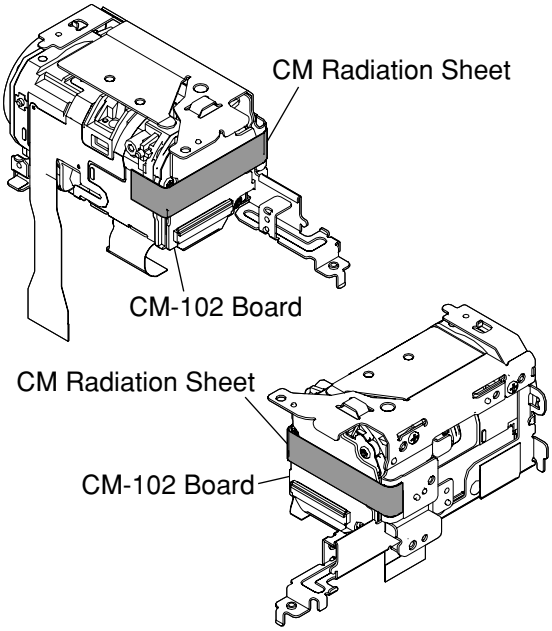
HELP06: VC Radiation Sheet (Upper)



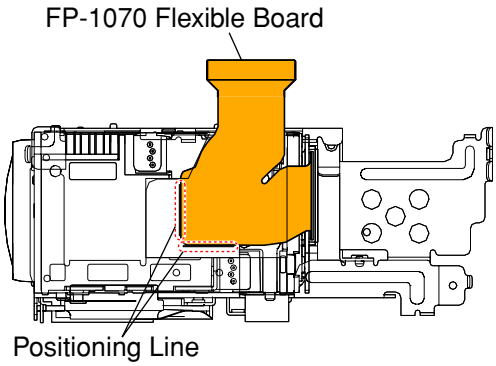
HELP07: Magnet

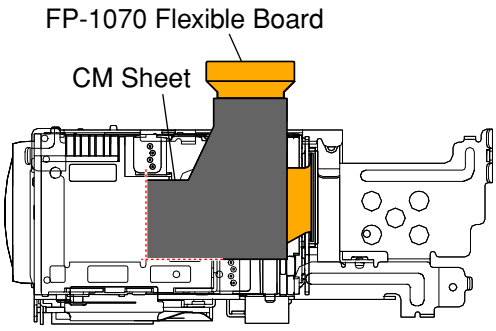


HELP08: CM Radiation Sheet



HELP09: FP-1070 Flexible Board/CM Sheet



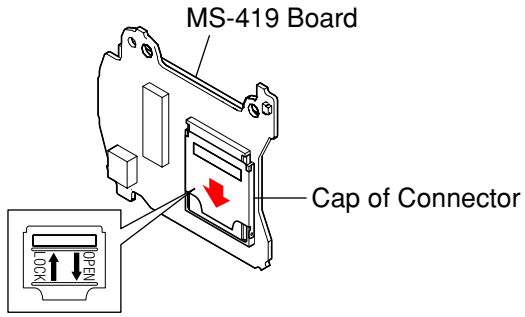


HELP10: Detaching Method and Installation Method of Memory Stick (MS7304)

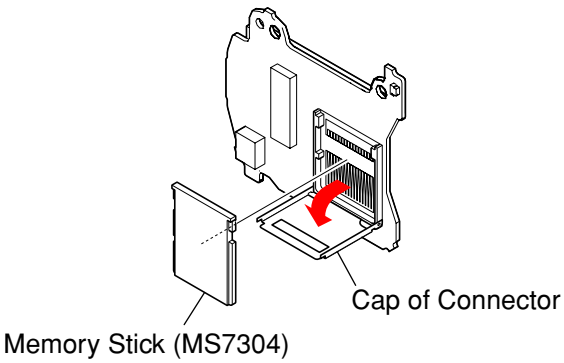
When replacing the internal memory (MS7304 that has been inserted in the MS-419 board), start the Adjust Manual in the Adjust Station and execute the "INTERNAL MEMORY ADJUSTMENTS".

Detaching Method

① Move the cap of connector to direction of "OPEN" and release the lock.

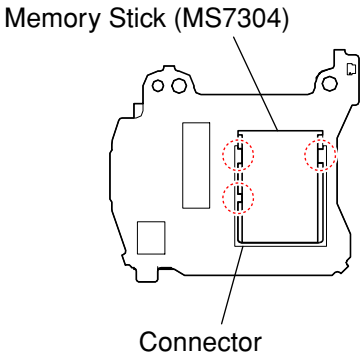


② The cap of connector is opened forward and detach the Memory Stick (MS7304).

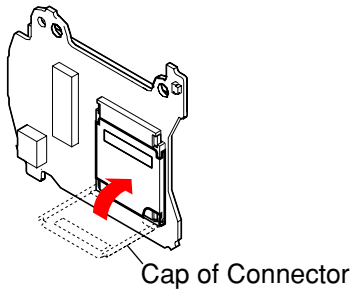


Installation Method

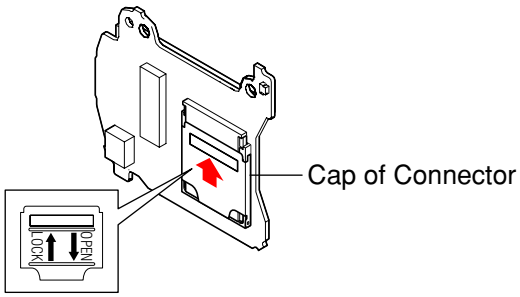
① Set the shape of the Memory Stick (MS7304) to the position of the shape of the connector.



② Shut the cap of connector.

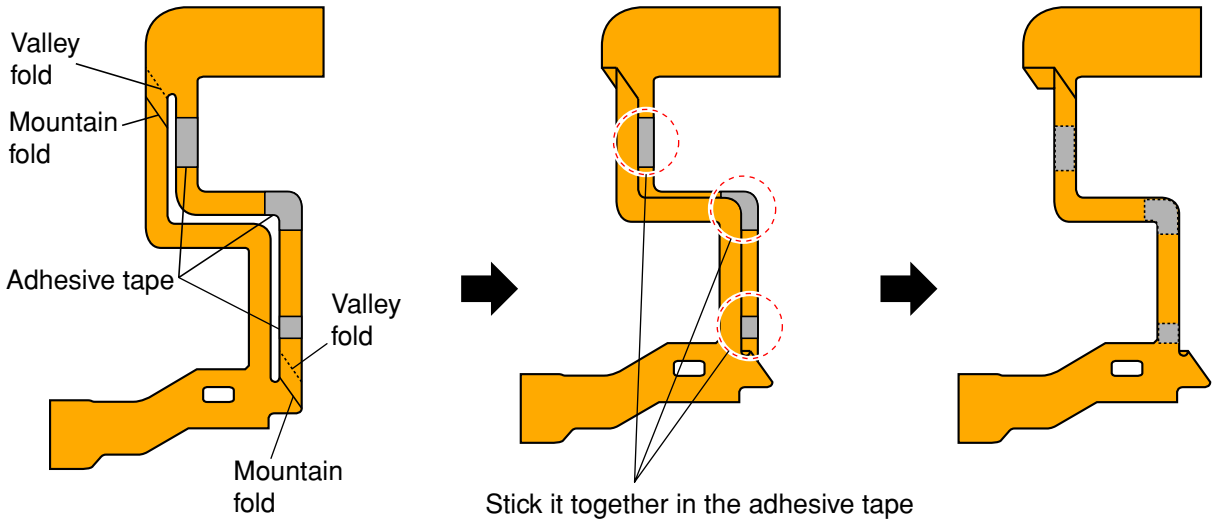


③ Move the cap of connector to direction of "LOCK" and lock it.

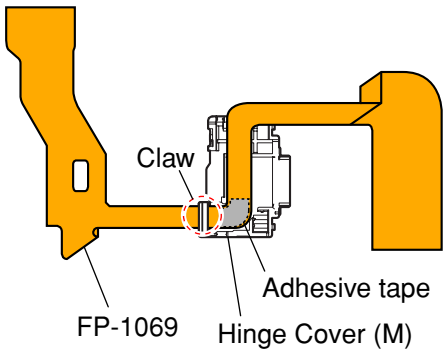


HELP11: The Method of Attachment of FP-1069 Flexible Board

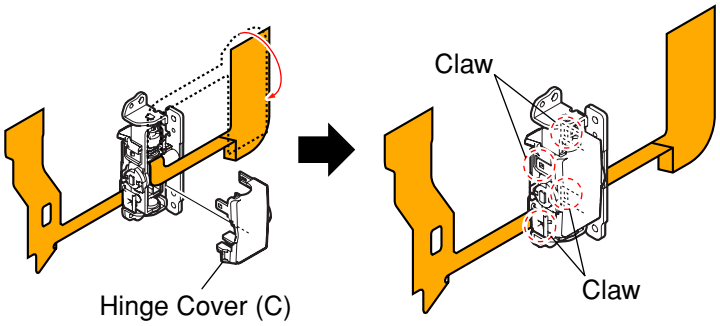
① Fold dotted line parts of the FP-1069 flexible board as shown in figure.



② Install FP-1069 flexible board in the Hinge Cover (M).



③ Install the Hinge Cover (C).



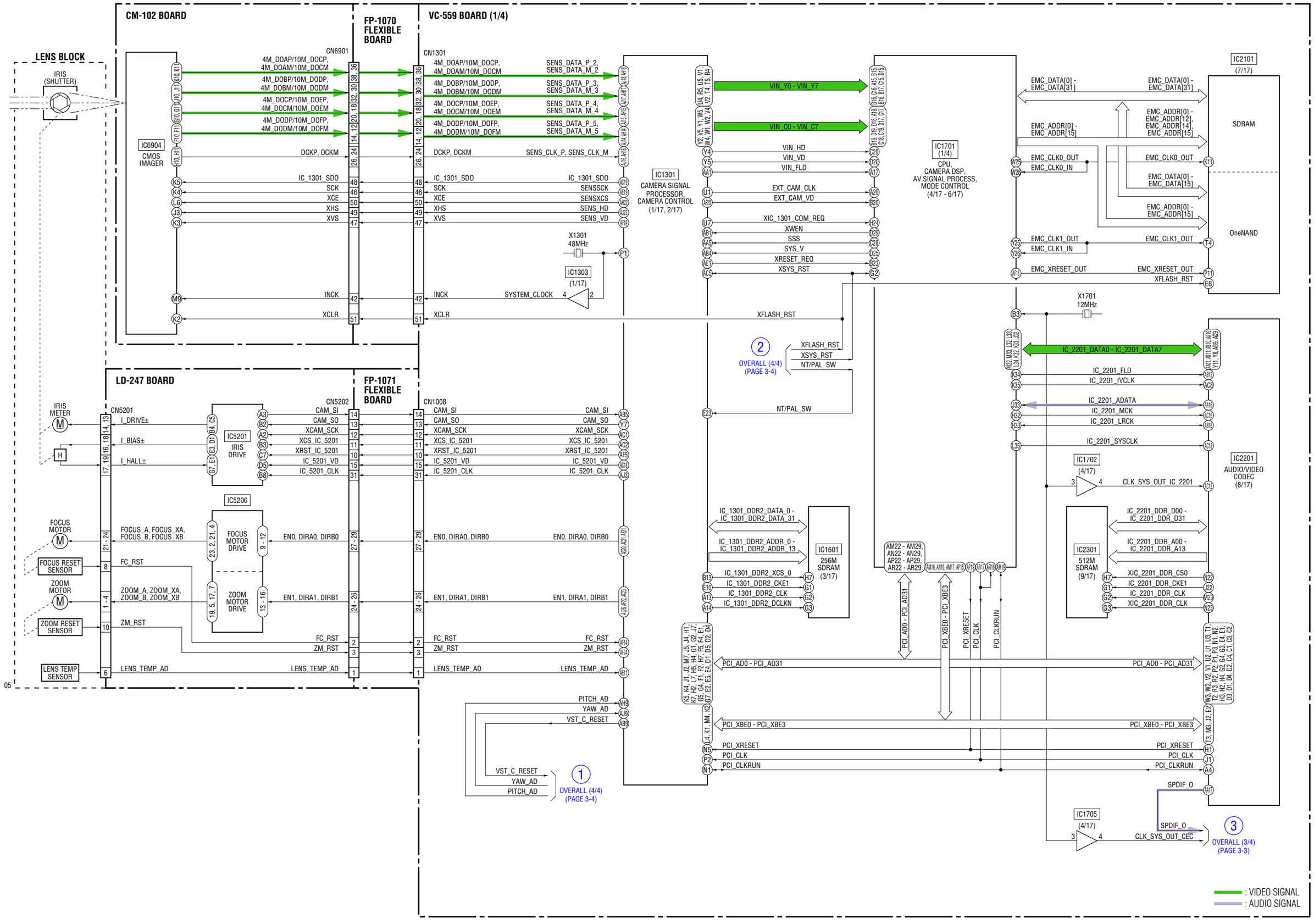
3. BLOCK DIAGRAMS

Link

- OVERALL BLOCK DIAGRAM (1/4)
- OVERALL BLOCK DIAGRAM (2/4)
- OVERALL BLOCK DIAGRAM (3/4)
- OVERALL BLOCK DIAGRAM (4/4)
- POWER BLOCK DIAGRAM (1/3)
- POWER BLOCK DIAGRAM (2/3)
- POWER BLOCK DIAGRAM (3/3)

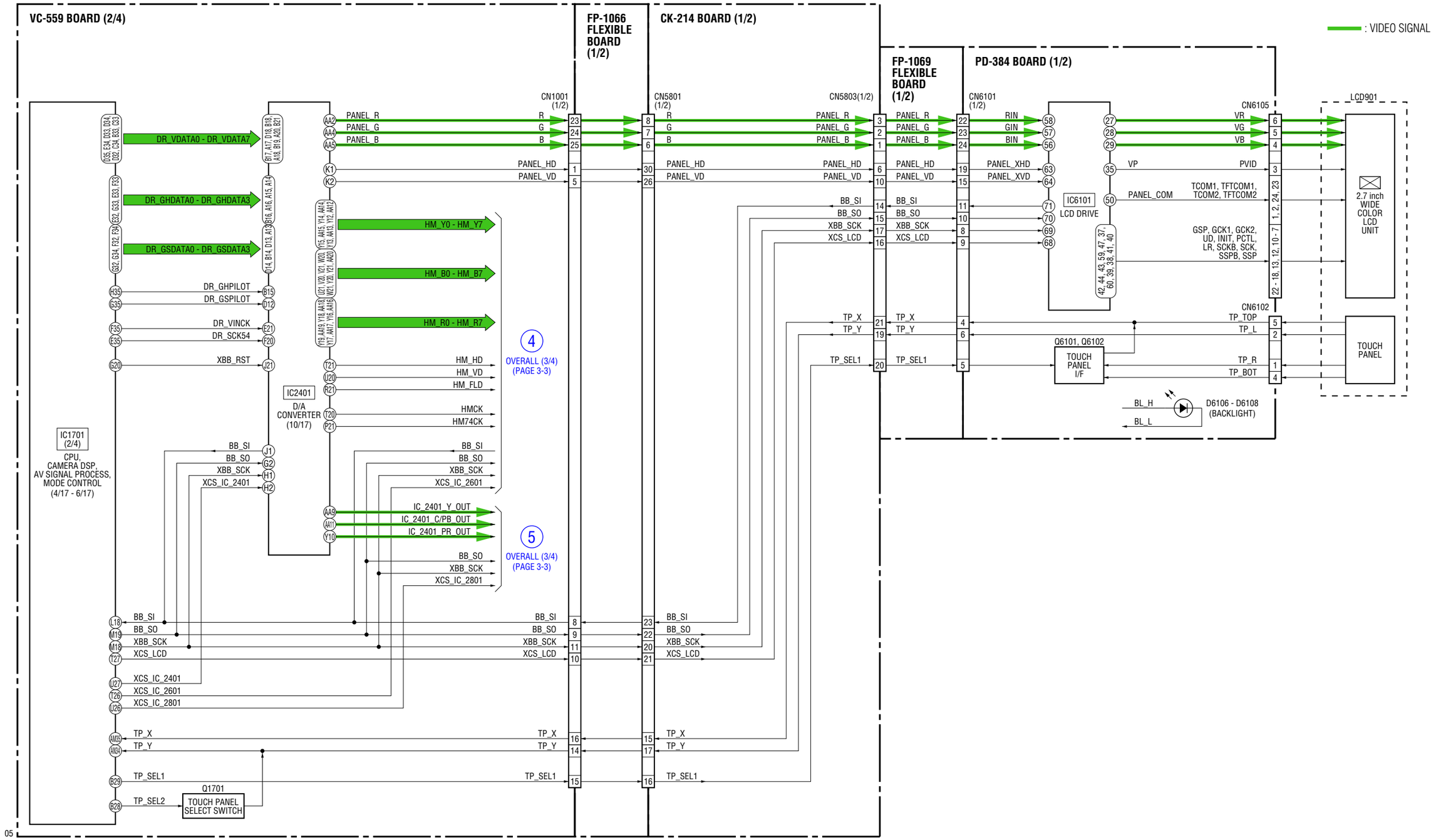
3-1. OVERALL BLOCK DIAGRAM (1/4)

( ) : Number in parenthesis ( ) indicates the division number of schematic diagram where the component is located.



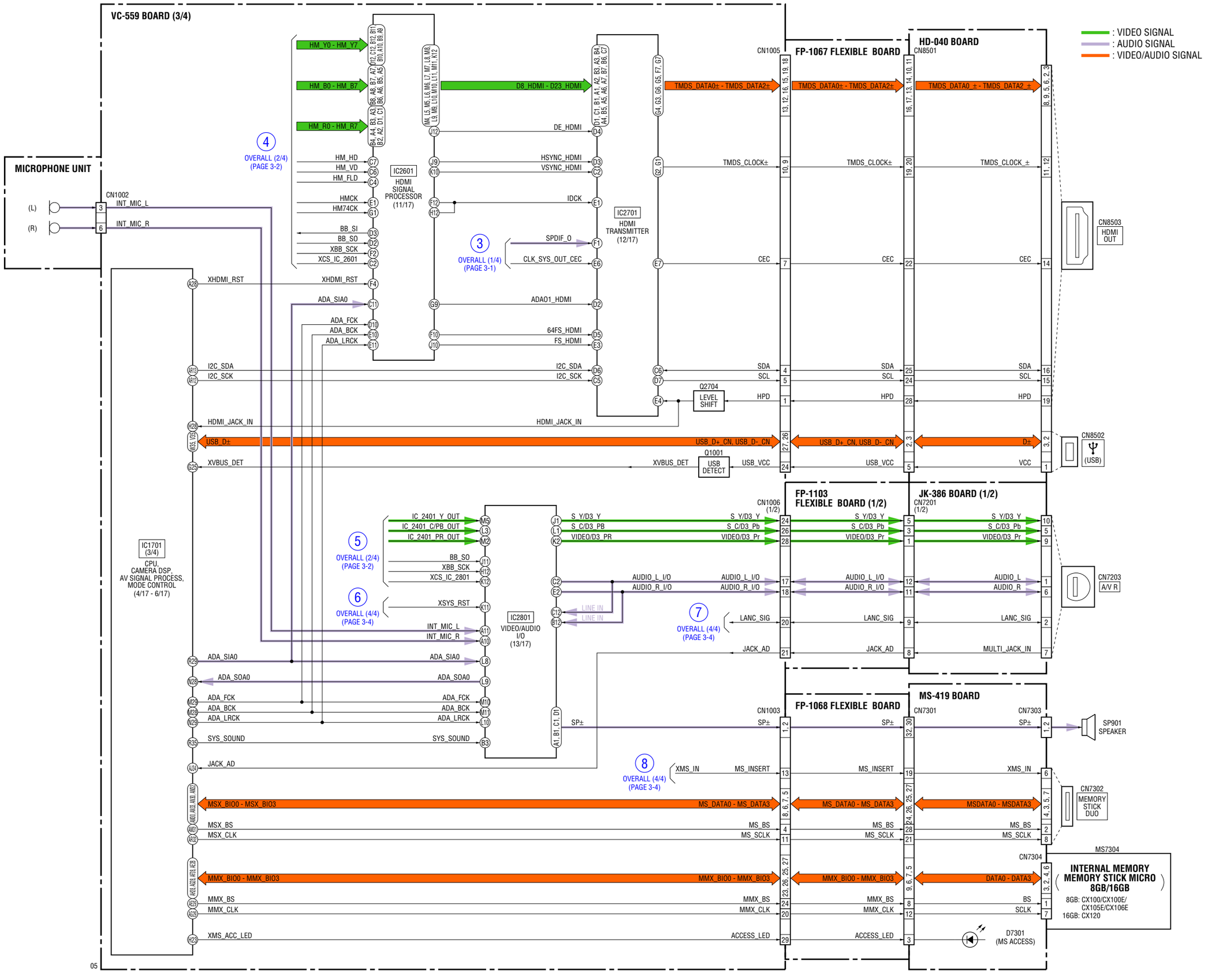
3-2. OVERALL BLOCK DIAGRAM (2/4)

( ) : Number in parenthesis ( ) indicates the division number of schematic diagram where the component is located.



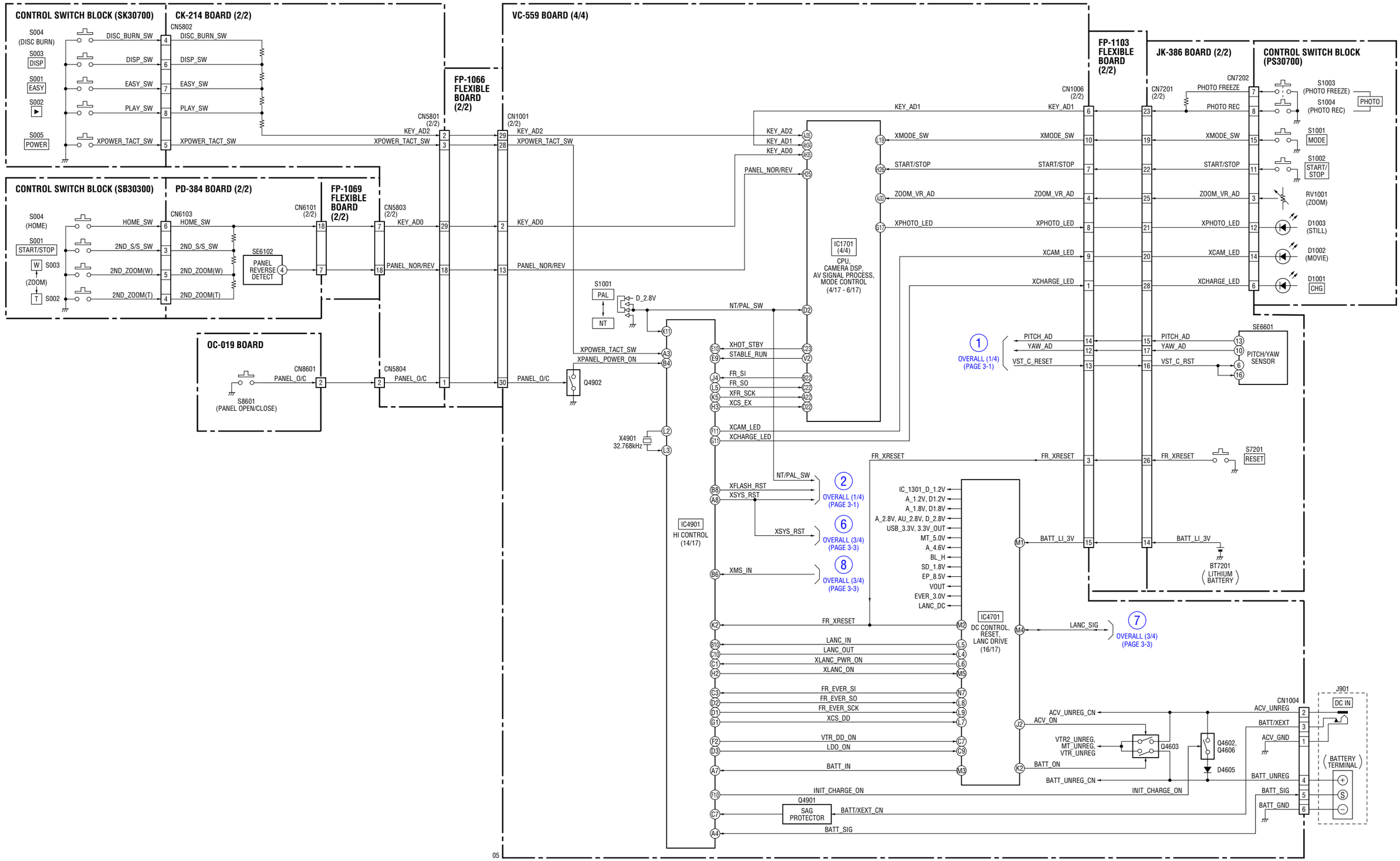
3-3. OVERALL BLOCK DIAGRAM (3/4)

( ) : Number in parenthesis ( ) indicates the division number of schematic diagram where the component is located.



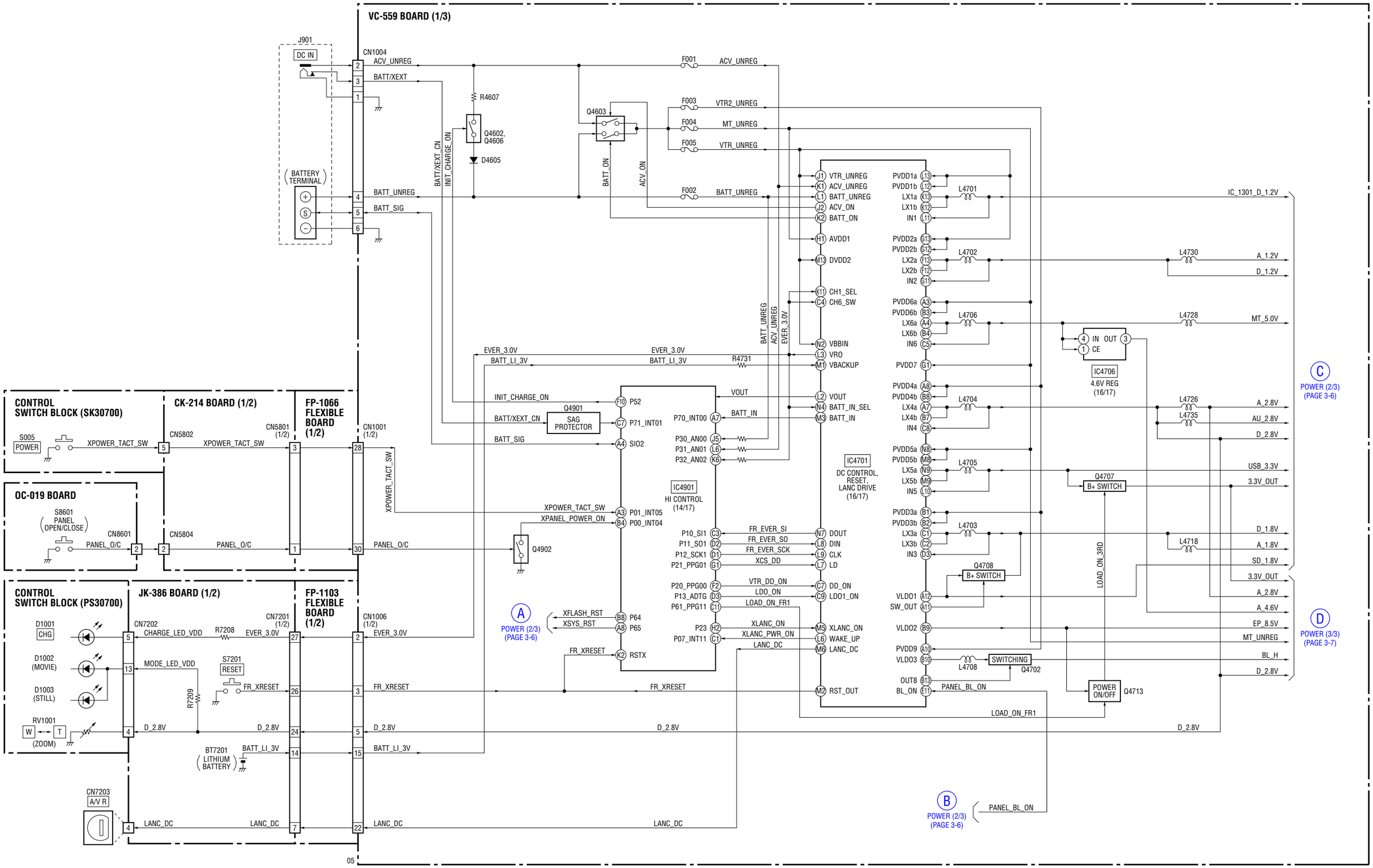
3-4. OVERALL BLOCK DIAGRAM (4/4)

( ) : Number in parenthesis ( ) indicates the division number of schematic diagram where the component is located.



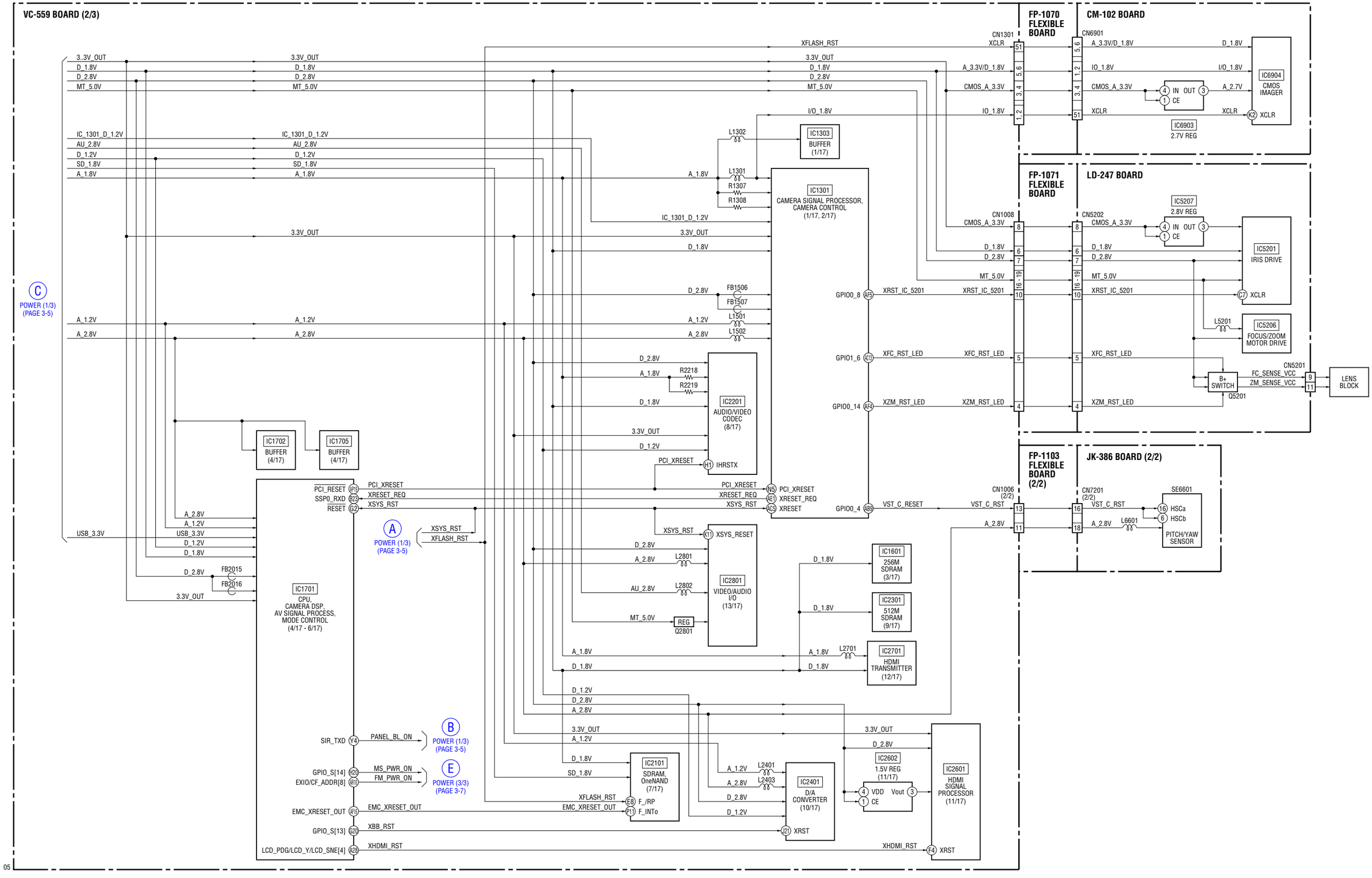
3-5. POWER BLOCK DIAGRAM (1/3)

( ) : Number in parenthesis ( ) indicates the division number of schematic diagram where the component is located.



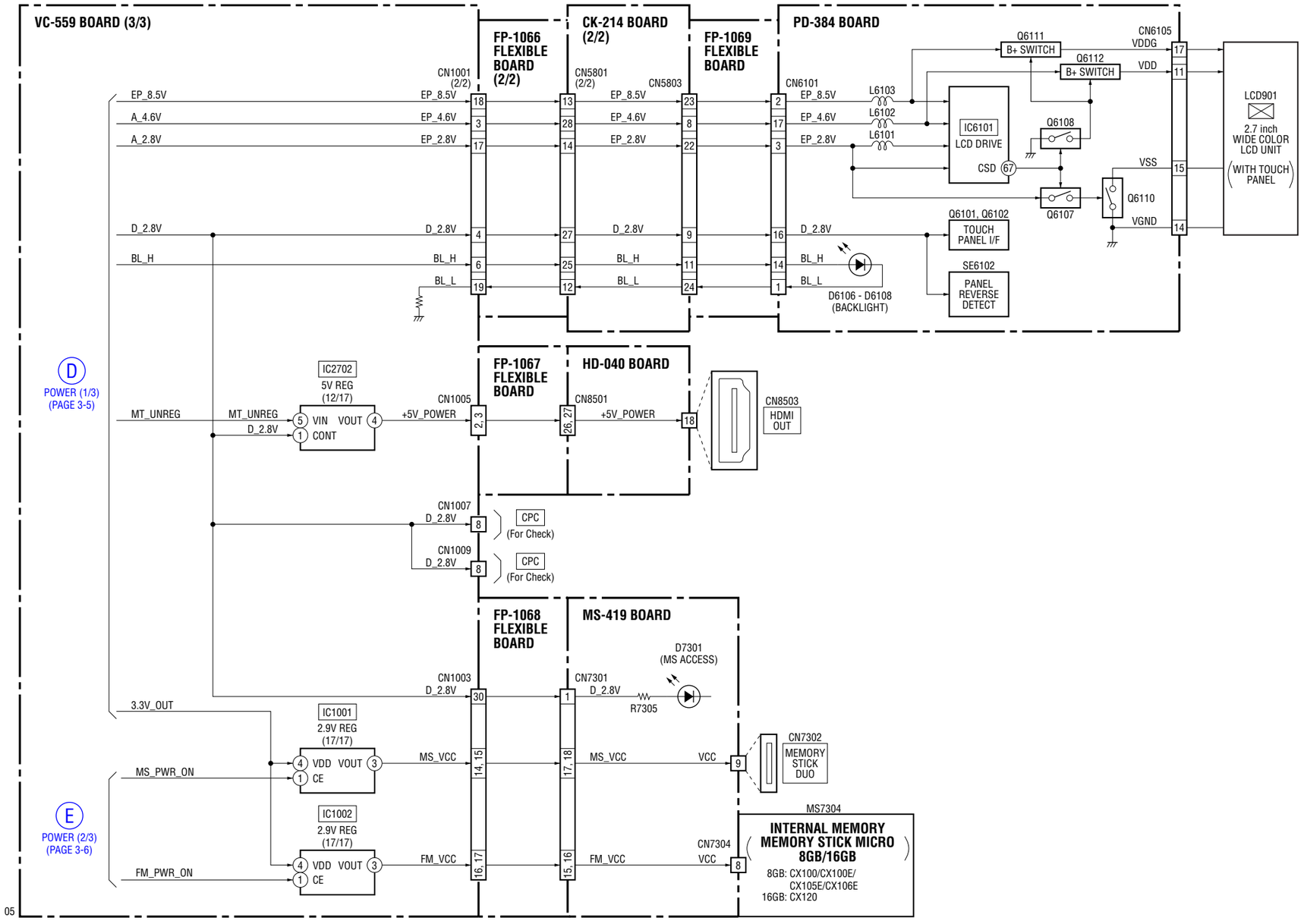
3-6. POWER BLOCK DIAGRAM (2/3)

( ) : Number in parenthesis ( ) indicates the division number of schematic diagram where the component is located.



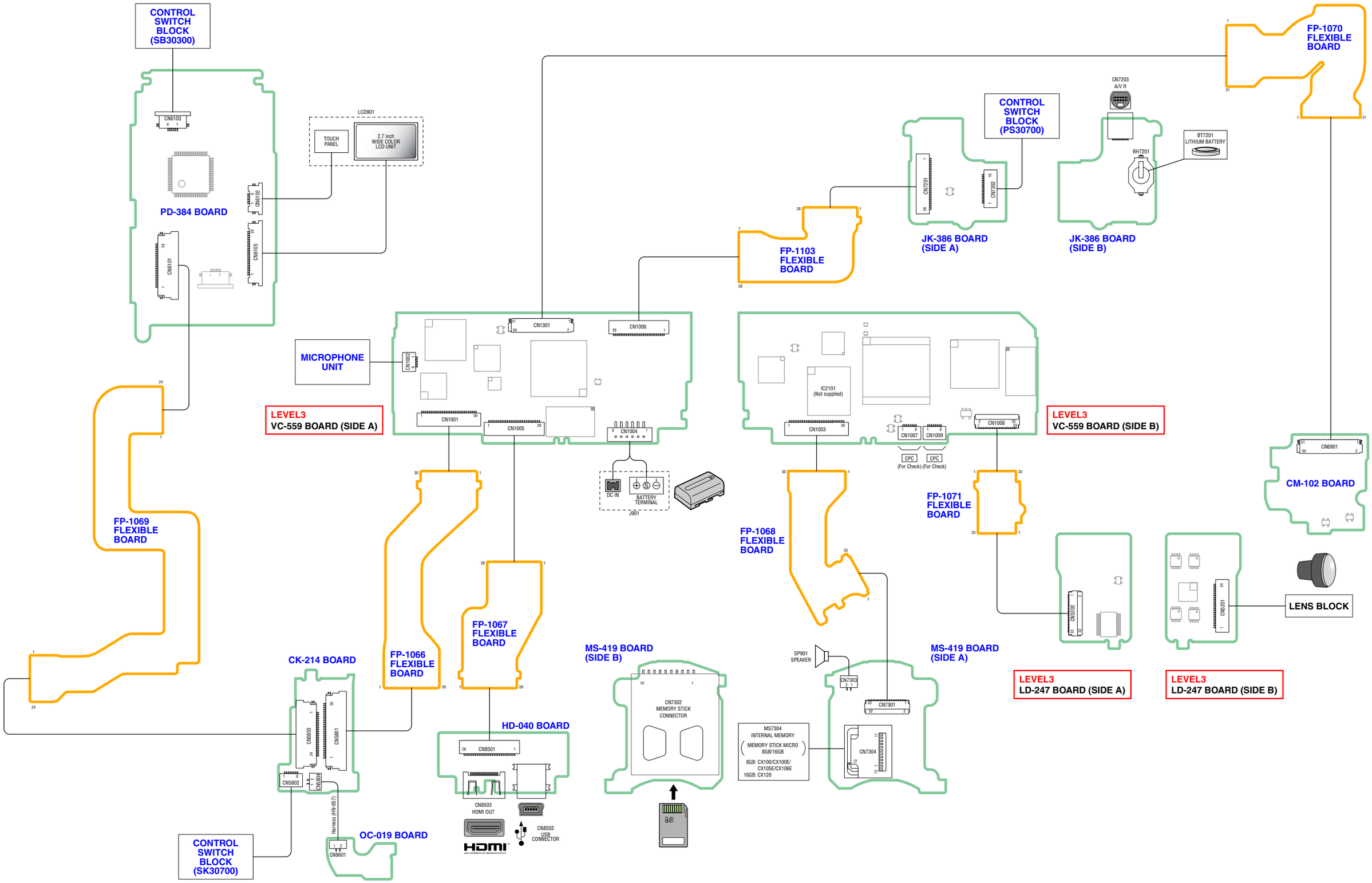
3-7. POWER BLOCK DIAGRAM (3/3)

( ) : Number in parenthesis ( ) indicates the division number of schematic diagram where the component is located.



4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

4-1. FRAME SCHEMATIC DIAGRAM



4-2. SCHEMATIC DIAGRAMS

Link

- CM-102 BOARD (CMOS IMAGER)
- CK-214 BOARD (CONNECTOR)
- PD-384 BOARD (LCD DRIVE)
- JK-386 BOARD (1/2) (A/V R CONNECTOR)
- JK-386 BOARD (2/2) (PITCH/YAW SENSOR)
- MS-419 BOARD (INTERNAL/EXTERNAL MS CONNECTOR)
- HD-040 BOARD (HDMI/USB CONNECTOR)
- OC-019 BOARD (PANEL OPEN/CLOSE SWITCH)
- FP-1066 FLEXIBLE BOARD (VC-CK CONNECTION)
- FP-1067 FLEXIBLE BOARD (VC-HD CONNECTION)
- FP-1068 FLEXIBLE BOARD (VC-MS CONNECTION)
- FP-1069 FLEXIBLE BOARD (CK-PD CONNECTION)
- FP-1070 FLEXIBLE BOARD (VC-CM CONNECTION)
- FP-1071 FLEXIBLE BOARD (VC-LD CONNECTION)
- FP-1103 FLEXIBLE BOARD (VC-JK CONNECTION)
- CONTROL SWITCH BLOCK (SB30300)
- CONTROL SWITCH BLOCK (PS30700)
- CONTROL SWITCH BLOCK (SK30700)
- MICROPHONE UNIT

- COMMON NOTE FOR SCHEMATIC DIAGRAMS

4-2. SCHEMATIC DIAGRAMS (ENGLISH)

THIS NOTE IS COMMON FOR SCHEMATIC DIAGRAMS
(In addition to this, the necessary note is printed in each block)

(For schematic diagrams)

- All capacitors are in μF unless otherwise noted. pF : μμF. 50 V or less are not indicated except for electrolytics and tantalums.
- Chip resistors are 1/10 W unless otherwise noted. kΩ=1000 Ω, MΩ=1000 kΩ.
- Caution when replacing chip parts.
  New parts must be attached after removal of chip.
  Be careful not to heat the minus side of tantalum capacitor, Because it is damaged by the heat.
- Some chip part will be indicated as follows.

  Example C541 22U TA A — Kinds of capacitor / Case size
  L452 10UH 2520 — External dimensions (mm)
- Constants of resistors, capacitors, ICs and etc with XX indicate that they are not used.
  In such cases, the unused circuits may be indicated.
- Parts with ★ differ according to the model/destination.
  Refer to the mount table for each function.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Signal name
  XEDIT → $\overline{\text{EDIT}}$ PB/XREC → PB/$\overline{\text{REC}}$
- : non flammable resistor
- : fusible resistor
- : panel designation
- : B+ Line
- : B– Line
- : IN/OUT direction of (+,–) B LINE.
- : adjustment for repair.

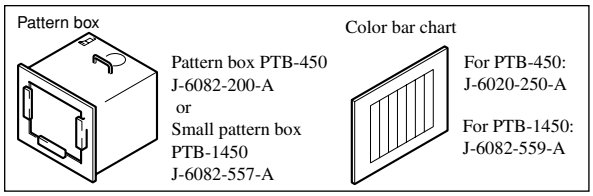
(Measuring conditions voltage and waveform)

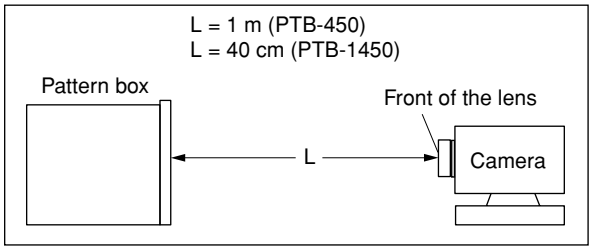
- Voltages and waveforms are measured between the measurement points and ground when camera shoots color bar chart of pattern box. They are reference values and reference waveforms.
  (VOM of DC 10 MΩ input impedance is used)
- Voltage values change depending upon input impedance of VOM used.)

Precautions for Replacement of Imager

- If the imager has been replaced, carry out all the adjustments for the camera section.
- As the imager may be damaged by static electricity from its structure, handle it carefully like for the MOS IC.
  In addition, ensure that the receiver is not covered with dusts nor exposed to strong light.

1. Connection





2. Adjust the distance so that the output waveform of Fig. a and the Fig. b can be obtain.

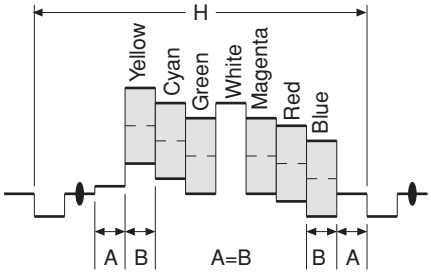


Fig. a (Video output terminal output waveform)

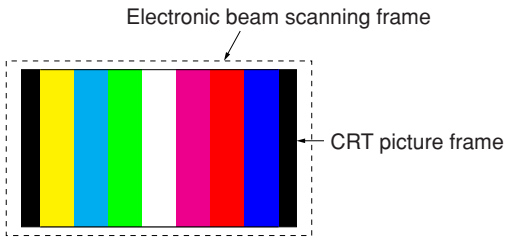


Fig.b (Picture on monitor TV)

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifie.

(JAPANESE)

回路図共通ノート
（他に必要なノートは各ブロックに記載してあります）
【回路図ノート】
・ケミコン，タンタルを除くコンデンサで，耐圧50V以下のものはその耐圧を省略。単位はすべてμF（pはpF）。
・チップ抵抗で指示のないものは，1／10W以下。
kΩ＝1000Ω，MΩ＝1000kΩ
・チップ部品交換時の注意
取り外した部品は再使用せず，未使用の部品をご使用ください。
タンタルコンデンサのマイナス側は熱に弱いため注意してください。
・チップ部品には下記のように表示したものがあります。

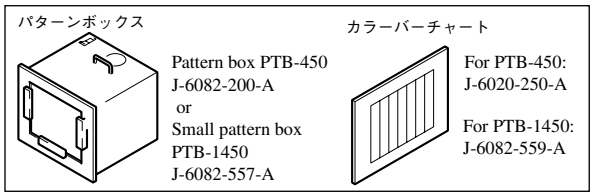
例	C 541	L 452
	22U	10UH
	TA A	2520
	↑ ↑	↑
	種類 ケースサイズ	外形寸法（mm）

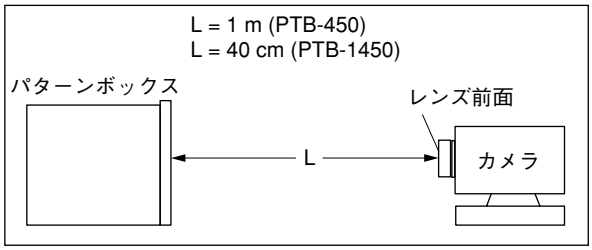
・抵抗，コンデンサ，ICなど定数にXXがあるものは，使用していない事を示しています。このため，使用していない回路が記載されている事があります。
・★印のある部品は，機種などにより異なりますので機能別マウント一覧表を参照してください。
・可変抵抗と半固定抵抗で，B特性の表示を省略。
・信号名表記について，下記のような場合があります。
XEDIT → $\overline{\text{EDIT}}$　　PB/XREC → PB/$\overline{\text{REC}}$
・ は不燃性抵抗。
・ はヒューズ抵抗。
・ はパネル表示名称。
・はB＋ライン。
・はB－ライン。
・ はBライン（＋，－）の入出力方向を示す。
・ は調整名称。

【電圧・波形測定条件ノート】
・電圧値及び信号波形はパターンボックスのカラーバーチャートを被写体としたときの測定点対アース間の参考値。
（デジタルマルチメータ；入力インピーダンス　DC10MΩ使用）
・使用テスタの入力インピーダンスにより電圧値が多少異なります。

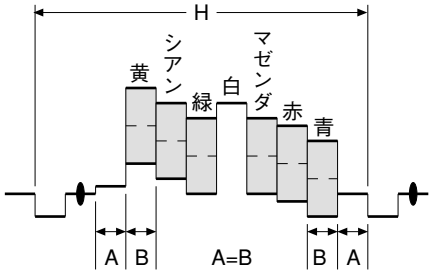
イメージャ交換時の注意
・イメージャを交換した場合は，カメラ部の全調整を行ってください。
・イメージャは構造上，静電気により破壊される恐れがあるため，MOS ICと同様に注意して取り扱ってください。
また，受光部にはゴミの付着，および強い光がはいることのないように注意してください。

1. 接続図

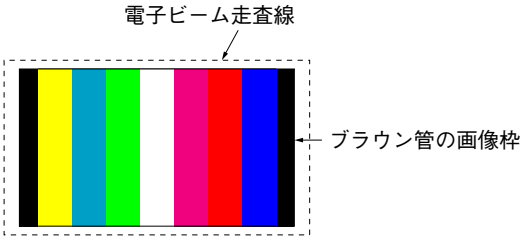




2. 図a及び図bの波形が得られるように画枠調整して下さい。



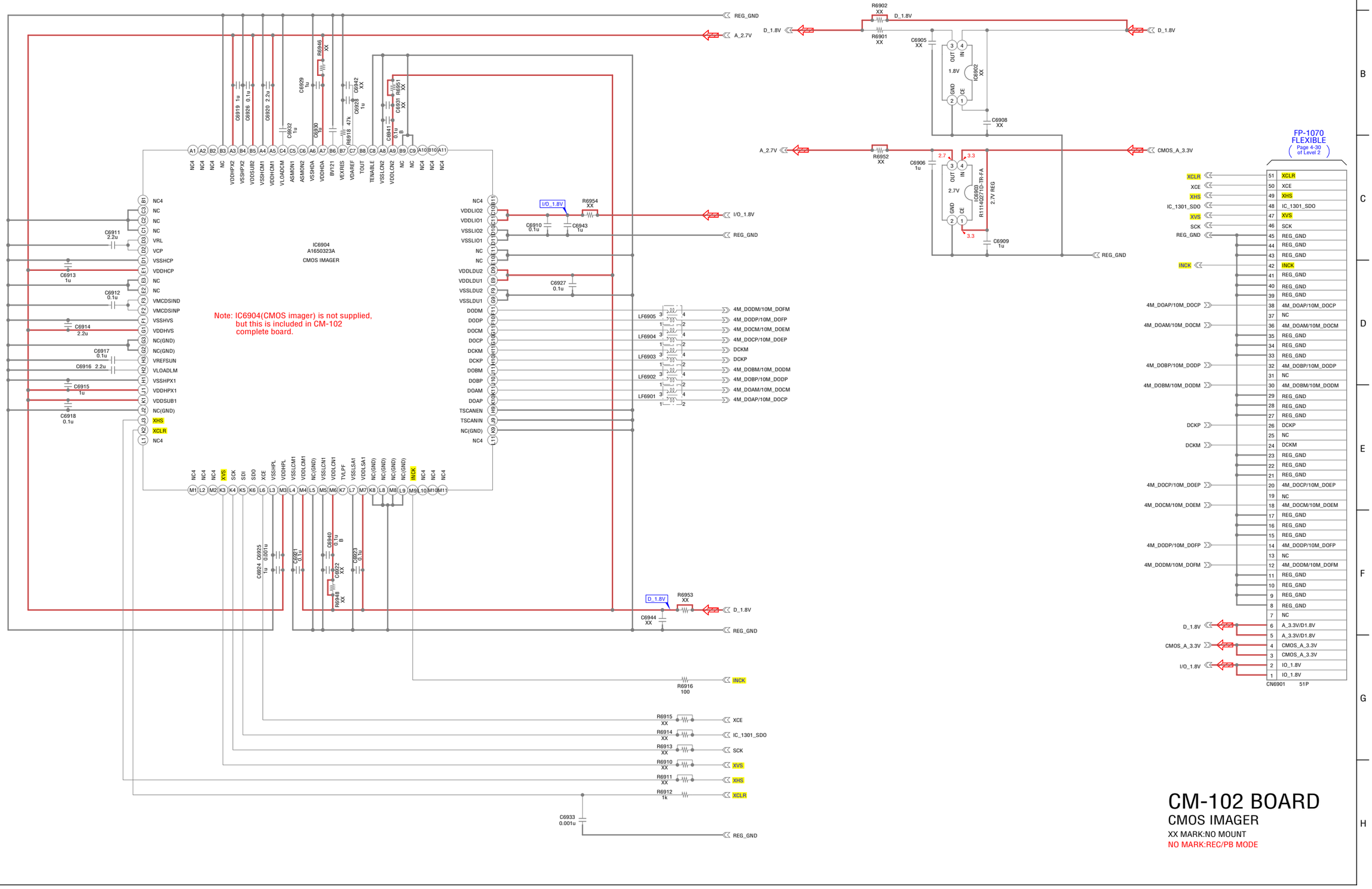
図a（映像入出力端子出力波形）



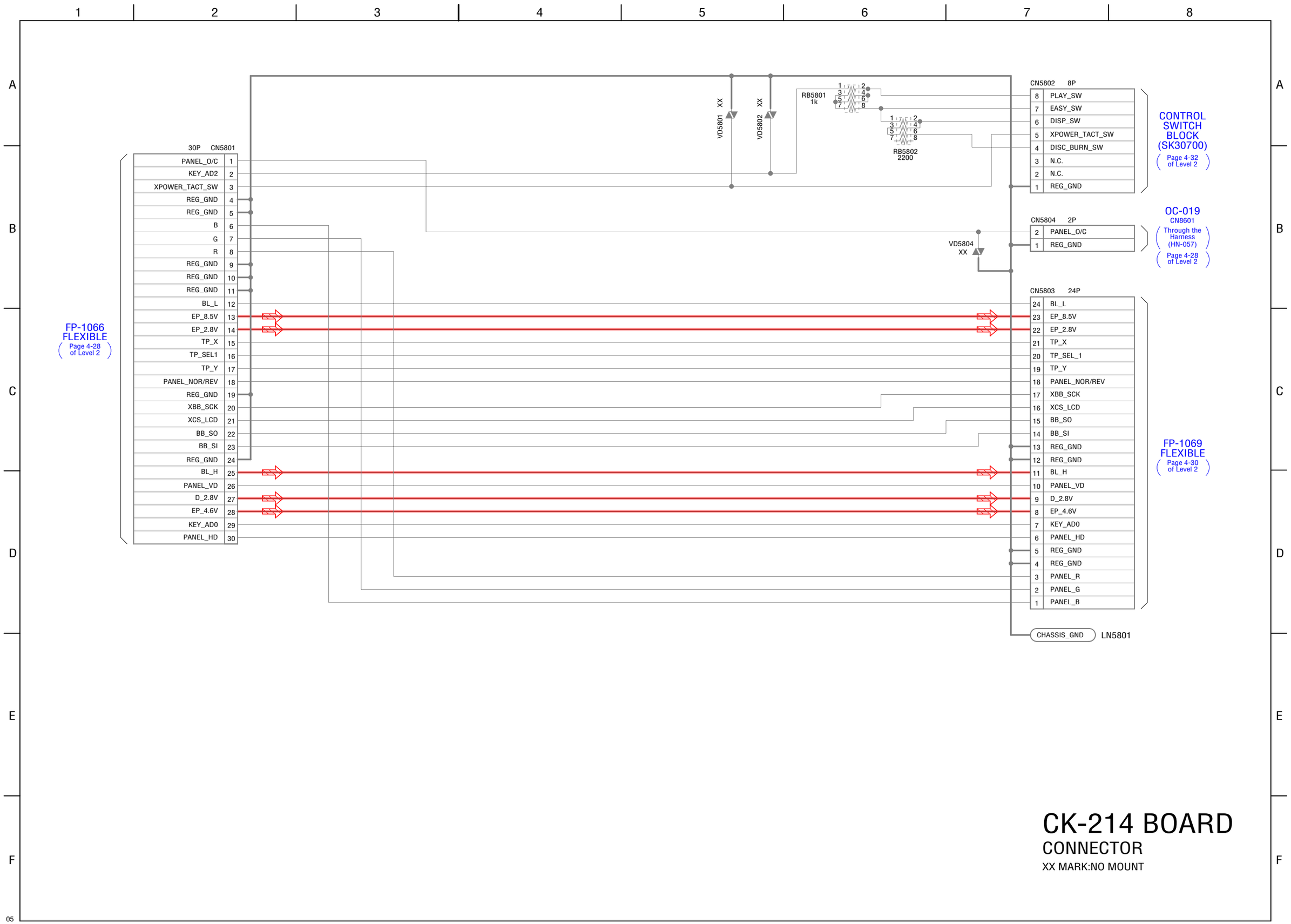
図b（テレビモニタの映像）

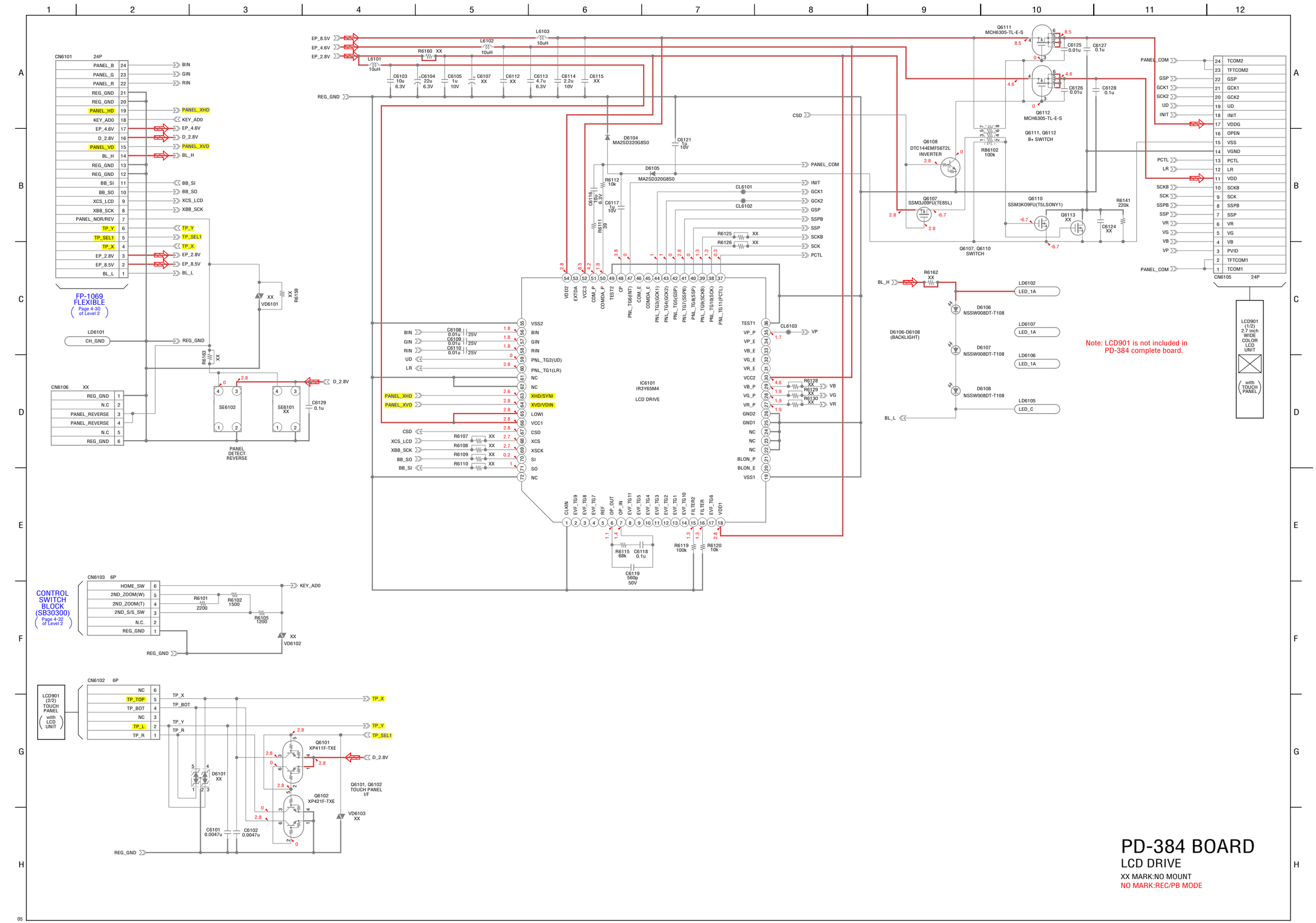
⚠印の部品，または⚠印付きの点線で囲まれた部品は，安全性を維持するために重要な部品です。
従って交換時は，必ず指定の部品を使用して下さい。

お願い
図面番号で部品を指定するときは基板名又はブロックを併せて指定して下さい。

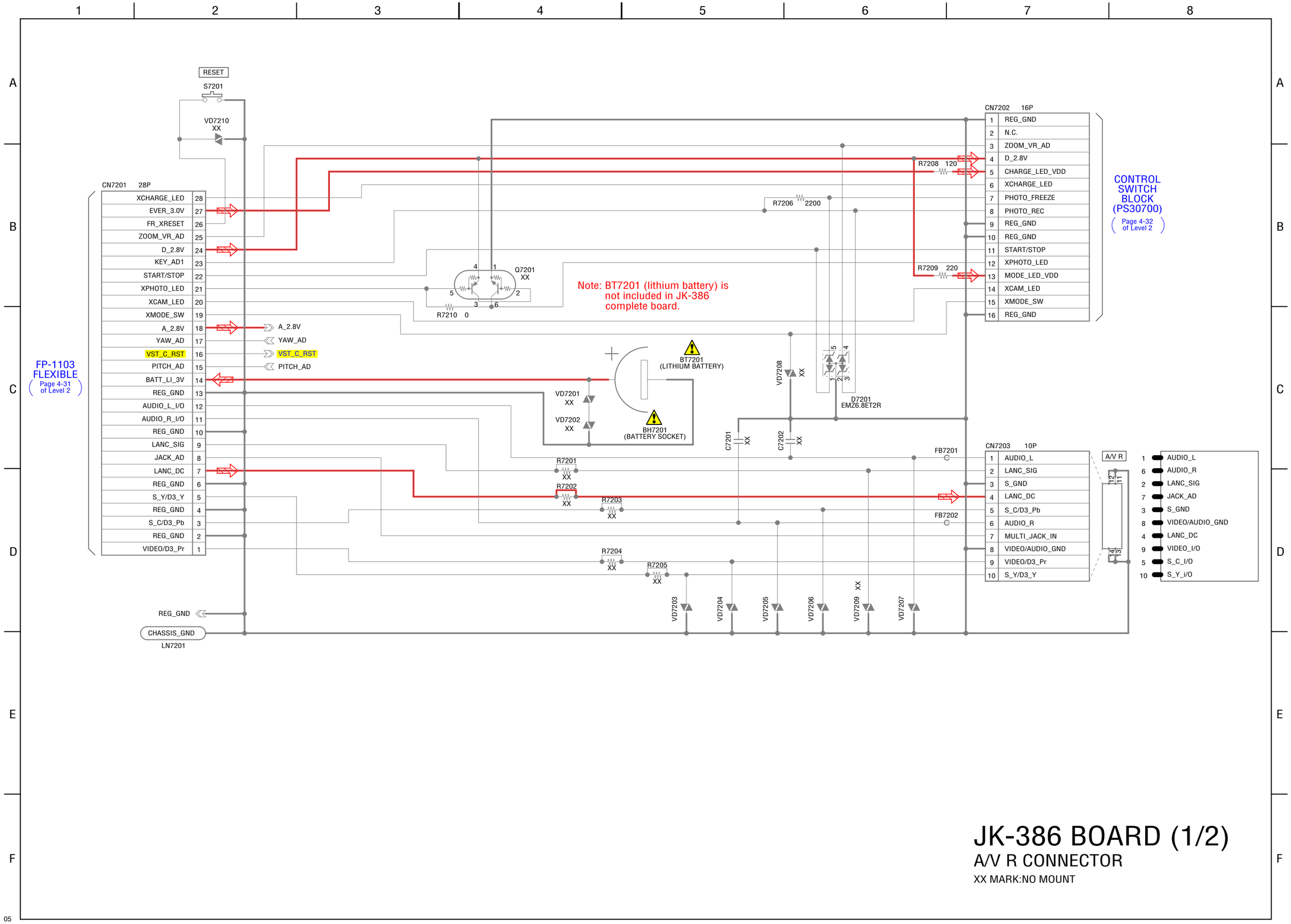

IC6904
A1650323A
CMOS IMAGER
Note: IC6904(CMOS imager) is not supplied, but this is included in CM-102 complete board.
REG_GND
A_2.7V
D_1.8V
I/O_1.8V
CMOS_A_3.3V
INCK
XCE
IC_1301_SDO
SCK
XVS
XHS
XCLR
R6902 XX
R6901 XX
C6905 XX
IC6902 XX
C6908 XX
R6952 XX
C6906 1u
IC6903 R1114Q271D-TR-FA 2.7V REG
C6909 1u
R6953 XX
C6944 XX
R6954 XX
C6910 0.1u
C6943 1u
C6927 0.1u
R6916 100
R6915 XX
R6914 XX
R6913 XX
R6910 XX
R6911 XX
R6912 1k
C6933 0.001u
LF6905
LF6904
LF6903
LF6902
LF6901
4M_DODM/10M_DOFM
4M_DODP/10M_DOFP
4M_DOCM/10M_DOEM
4M_DOCP/10M_DOEP
DCKM
DCKP
4M_DOBM/10M_DODM
4M_DOBP/10M_DODP
4M_DOAM/10M_DOCM
4M_DOAP/10M_DOCP
FP-1070
FLEXIBLE
Page 4-30
of Level 2
CN6901 51P
CM-102 BOARD
CMOS IMAGER
XX MARK:NO MOUNT
NO MARK:REC/PB MODE

Schematic diagrams of the LD-247 and VC-559 boards are not shown.
Pages from 4-5 to 4-22 are not shown.


30P CN5801
PANEL_O/C 1
KEY_AD2 2
XPOWER_TACT_SW 3
REG_GND 4
REG_GND 5
B 6
G 7
R 8
REG_GND 9
REG_GND 10
REG_GND 11
BL_L 12
EP_8.5V 13
EP_2.8V 14
TP_X 15
TP_SEL1 16
TP_Y 17
PANEL_NOR/REV 18
REG_GND 19
XBB_SCK 20
XCS_LCD 21
BB_SO 22
BB_SI 23
REG_GND 24
BL_H 25
PANEL_VD 26
D_2.8V 27
EP_4.6V 28
KEY_AD0 29
PANEL_HD 30
FP-1066 FLEXIBLE
Page 4-28 of Level 2
VD5801 XX
VD5802 XX
RB5801 1k
RB5802 2200
CN5802 8P
8 PLAY_SW
7 EASY_SW
6 DISP_SW
5 XPOWER_TACT_SW
4 DISC_BURN_SW
3 N.C.
2 N.C.
1 REG_GND
CONTROL SWITCH BLOCK (SK30700)
Page 4-32 of Level 2
VD5804 XX
CN5804 2P
2 PANEL_O/C
1 REG_GND
OC-019
CN8601
Through the Harness (HN-057)
Page 4-28 of Level 2
CN5803 24P
24 BL_L
23 EP_8.5V
22 EP_2.8V
21 TP_X
20 TP_SEL_1
19 TP_Y
18 PANEL_NOR/REV
17 XBB_SCK
16 XCS_LCD
15 BB_SO
14 BB_SI
13 REG_GND
12 REG_GND
11 BL_H
10 PANEL_VD
9 D_2.8V
8 EP_4.6V
7 KEY_AD0
6 PANEL_HD
5 REG_GND
4 REG_GND
3 PANEL_R
2 PANEL_G
1 PANEL_B
FP-1069 FLEXIBLE
Page 4-30 of Level 2
CHASSIS_GND
LN5801
CK-214 BOARD
CONNECTOR
XX MARK:NO MOUNT


CN6101 24P
PANEL_B 24
PANEL_G 23
PANEL_R 22
REG_GND 21
REG_GND 20
PANEL_HD 19
KEY_AD0 18
EP_4.6V 17
D_2.8V 16
PANEL_VD 15
BL_H 14
REG_GND 13
REG_GND 12
BB_SI 11
BB_SO 10
XCS_LCD 9
XBB_SCK 8
PANEL_NOR/REV 7
TP_Y 6
TP_SEL1 5
TP_X 4
EP_2.8V 3
EP_8.5V 2
BL_L 1
FP-1069
FLEXIBLE
Page 4-30
of Level 2
LD6101
CH_GND
REG_GND
R6163 XX
CN6106 XX
REG_GND 1
N.C 2
PANEL_REVERSE 3
PANEL_REVERSE 4
N.C 5
REG_GND 6
SE6102
SE6101 XX
C6129 0.1u
PANEL DETECT REVERSE
VD6101 XX
R6159 XX
EP_8.5V
EP_4.6V
EP_2.8V
L6101 10uH
L6102 10uH
L6103 10uH
R6160 XX
C6103 10u 6.3V
C6104 22u 6.3V
C6105 1u 10V
C6107 XX
C6112 XX
C6113 4.7u 6.3V
C6114 2.2u 10V
C6115 XX
REG_GND
D6104 MA2SD320G8S0
C6121 1u 10V
D6105 MA2SD320G8S0
R6112 10k
C6116 0.1u 6.3V
C6117 1u 10V
R6111 39
CSD
PANEL_COM
INIT
GCK1
GCK2
GSP
SSPB
SSP
SCKB
SCK
PCTL
CL6101
CL6102
R6125 XX
R6126 XX
VD2 54
EXTDA 53
VCC3 52
COM_P 51
COMDA_P 50
TEST2 49
CP 48
PNL_TG6(INT) 47
COM_E 46
COMDA_E 45
PNL_TG4(GCK1) 44
PNL_TG4(GCK2) 43
PNL_TG5(GSP) 42
PNL_TG7(SSPB) 41
PNL_TG8(SSP) 40
PNL_TG9(SCKB) 39
PNL_TG10(SCK) 38
PNL_TG11(PCTL) 37
VSS2 35
BIN 56
GIN 57
RIN 58
PNL_TG2(UD) 59
PNL_TG1(LR) 60
NC 61
NC 62
XHD/SYNI 63
XVD/VDIN 64
LOWI 65
VCC1 66
CSD 67
XCS 68
XSCK 69
SI 70
SO 71
NC 72
C6108 0.01u 25V
C6109 0.01u 25V
C6110 0.01u 25V
R6107 XX
R6108 XX
R6109 XX
R6110 XX
IC6101
IR3Y65M4
LCD DRIVE
TEST1 36
VP_P 35
VP_E 34
VB_E 33
VG_E 32
VR_E 31
VCC2 30
VB_P 29
VG_P 28
VR_P 27
GND2 26
GND1 25
NC 24
NC 23
NC 22
BLON_P 21
BLON_E 20
VSS1 19
CL6103
VP
R6128 XX
R6129 XX
R6130 XX
VB
VG
VR
CLKIN 1
EVF_TG9 2
EVF_TG8 3
EVF_TG7 4
REF 5
OP_OUT 6
OP_IN 7
EVF_TG11 8
EVF_TG5 9
EVF_TG4 10
EVF_TG3 11
EVF_TG2 12
EVF_TG1 13
EVF_TG10 14
FILTER2 15
FILTER 16
EVF_TG6 17
VDD1 18
R6115 68k
C6118 0.1u
C6119 560p 50V
R6119 100k
R6120 10k
Q6111 MCH6305-TL-E-S
C6125 0.01u
C6127 0.1u
Q6112 MCH6305-TL-E-S
C6126 0.01u
C6128 0.1u
Q6111, Q6112 B+ SWITCH
Q6108 DTC144EMFS6T2L INVERTER
RB6102 100k
Q6107 SSM3J09FU(TE85L)
Q6110 SSM3K09FU(T5LSONY1)
Q6113 XX
C6124 XX
R6141 220k
Q6107, Q6110 SWITCH
BL_H
R6162 XX
D6106 NSSW008DT-T108
D6107 NSSW008DT-T108
D6108 NSSW008DT-T108
D6106-D6108 (BACKLIGHT)
LD6102 LED_1A
LD6107 LED_1A
LD6106 LED_1A
LD6105 LED_C
BL_L
PANEL_COM
GSP
GCK1
GCK2
UD
INIT
PCTL
LR
SCKB
SCK
SSPB
SSP
VR
VG
VB
VP
TCOM2 24
TFTCOM2 23
GSP 22
GCK1 21
GCK2 20
UD 19
INIT 18
VDDG 17
OPEN 16
VSS 15
VGND 14
PCTL 13
LR 12
VDD 11
SCKB 10
SCK 9
SSPB 8
SSP 7
VR 6
VG 5
VB 4
PVID 3
TFTCOM1 2
TCOM1 1
CN6105 24P
LCD901 (1/2) 2.7 inch WIDE COLOR LCD UNIT
with TOUCH PANEL
Note: LCD901 is not included in PD-384 complete board.
CONTROL SWITCH BLOCK (SB30300)
Page 4-32
of Level 2
CN6103 6P
HOME_SW 6
2ND_ZOOM(W) 5
2ND_ZOOM(T) 4
2ND_S/S_SW 3
N.C. 2
REG_GND 1
KEY_AD0
R6101 2200
R6102 1500
R6105 1200
VD6102 XX
REG_GND
LCD901 (2/2) TOUCH PANEL
with LCD UNIT
CN6102 6P
NC 6
TP_TOP 5
TP_BOT 4
NC 3
TP_L 2
TP_R 1
TP_X
TP_BOT
TP_Y
TP_R
TP_X
TP_Y
TP_SEL1
D_2.8V
Q6101 XP411F-TXE
Q6102 XP421F-TXE
Q6101, Q6102 TOUCH PANEL I/F
D6101 XX
VD6103 XX
C6101 0.0047u
C6102 0.0047u
REG_GND
PD-384 BOARD
LCD DRIVE
XX MARK:NO MOUNT
NO MARK:REC/PB MODE

• Refer to page 4-2 (English), 4-3 (Japanese) for mark ⚠.

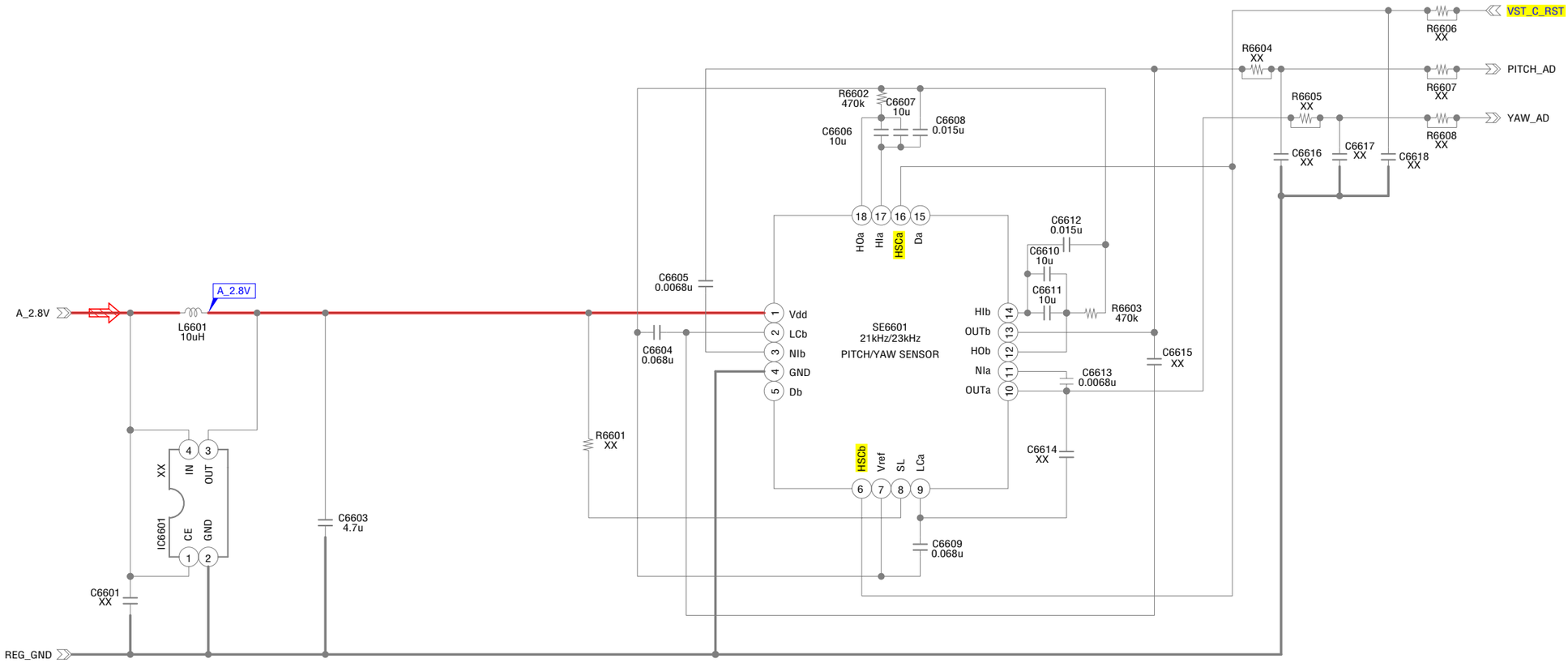


JK-386 BOARD (1/2)

A/V R CONNECTOR

XX MARK:NO MOUNT

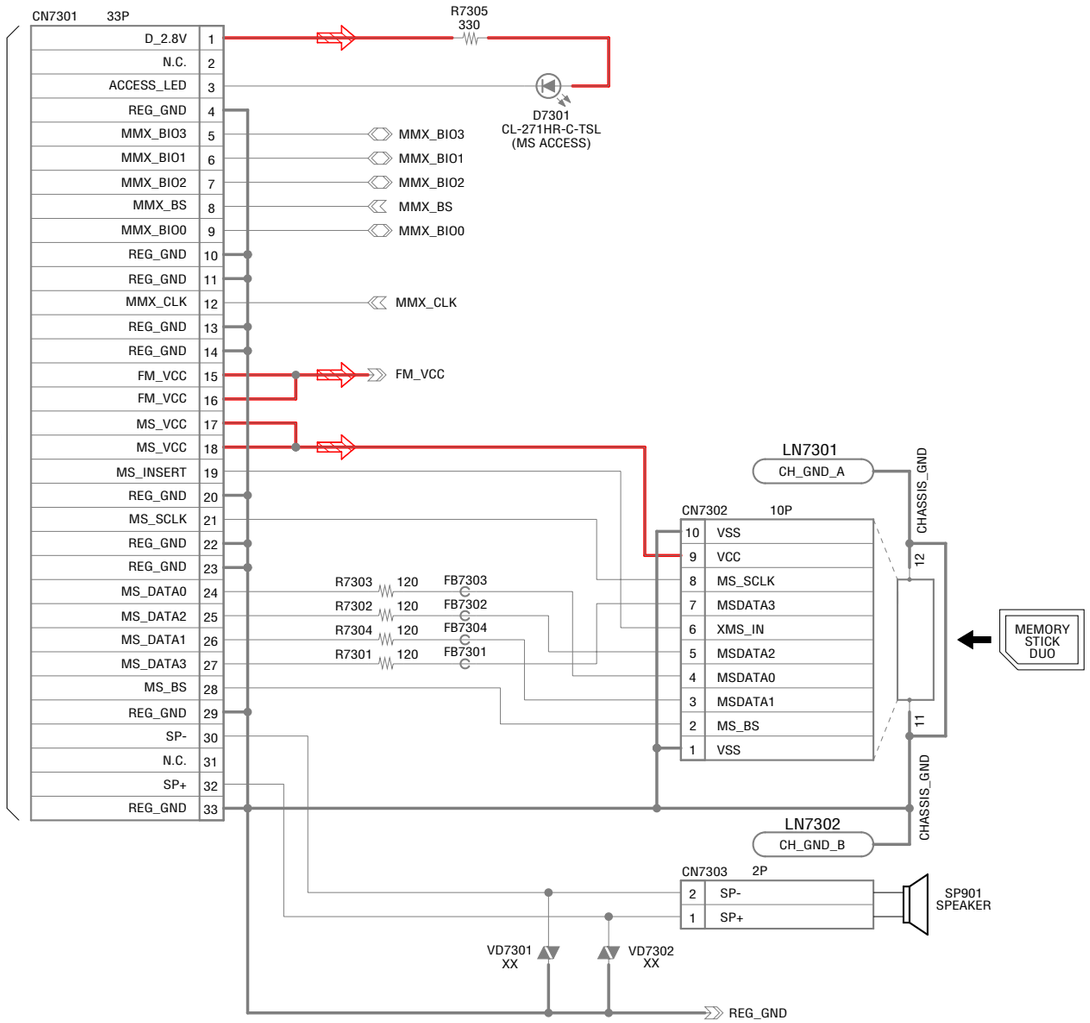
05



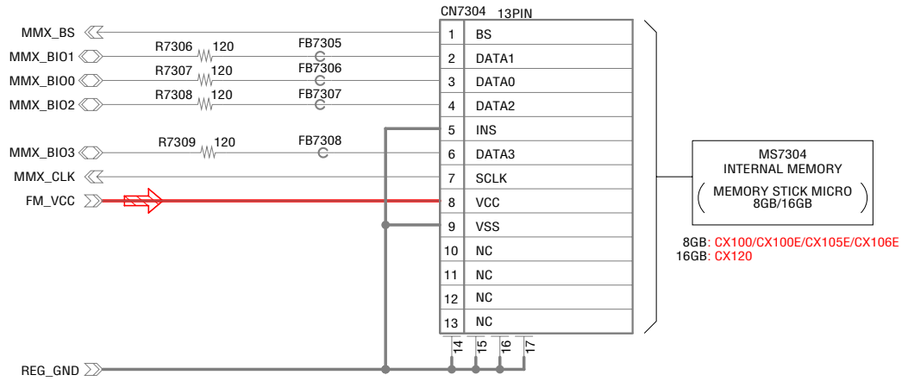
JK-386 BOARD (2/2)

PITCH/YAW SENSOR

XX MARK:NO MOUNT



Note: CN7304 (card connector) is not supplied,
but this is included in MS-419 complete board.

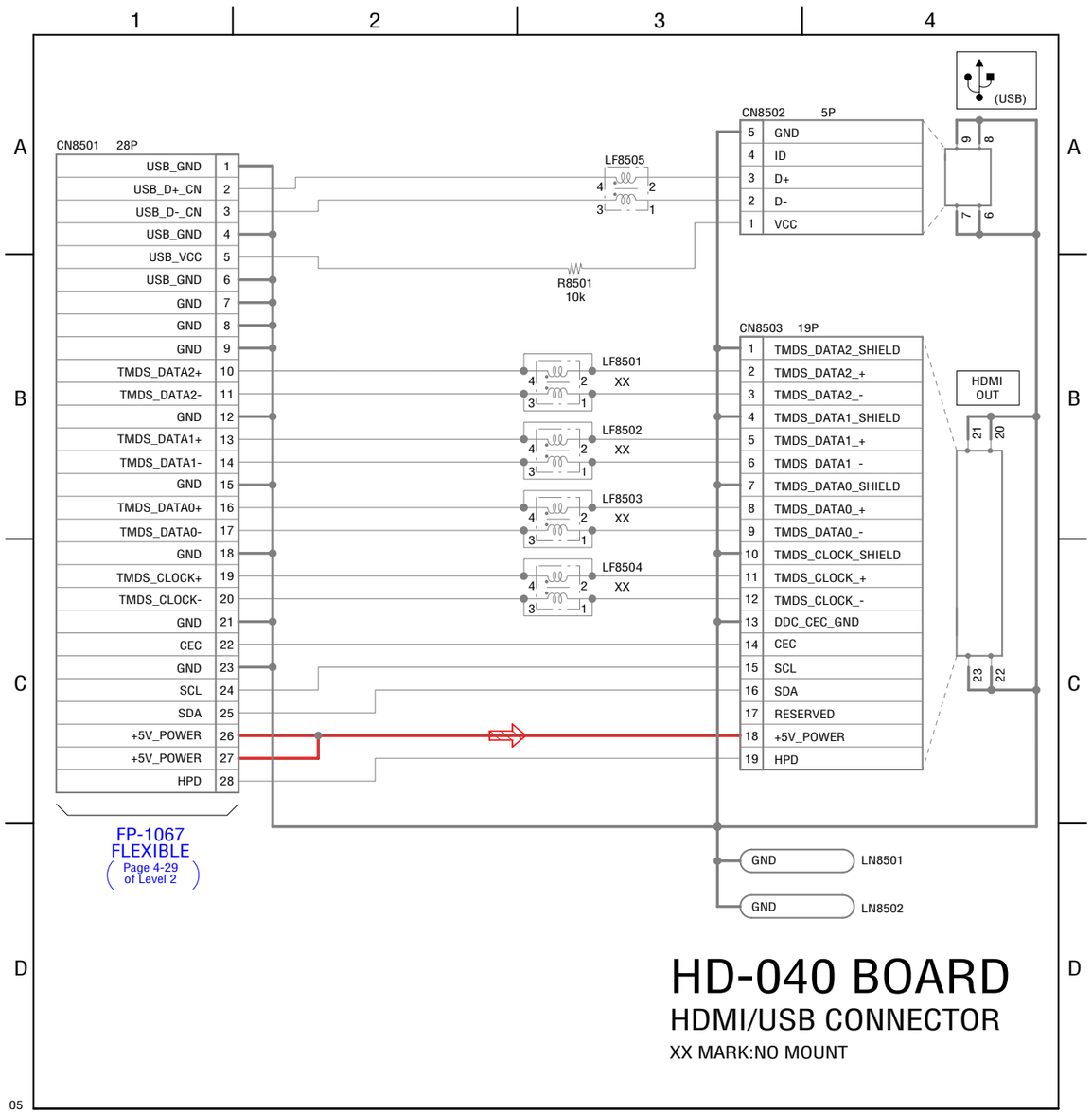


Note: MS7304 and SP901 are not included
in MS-419 complete board.

MS-419 BOARD

INTERNAL/EXTERNAL MS CONNECTOR

XX MARK:NO MOUNT



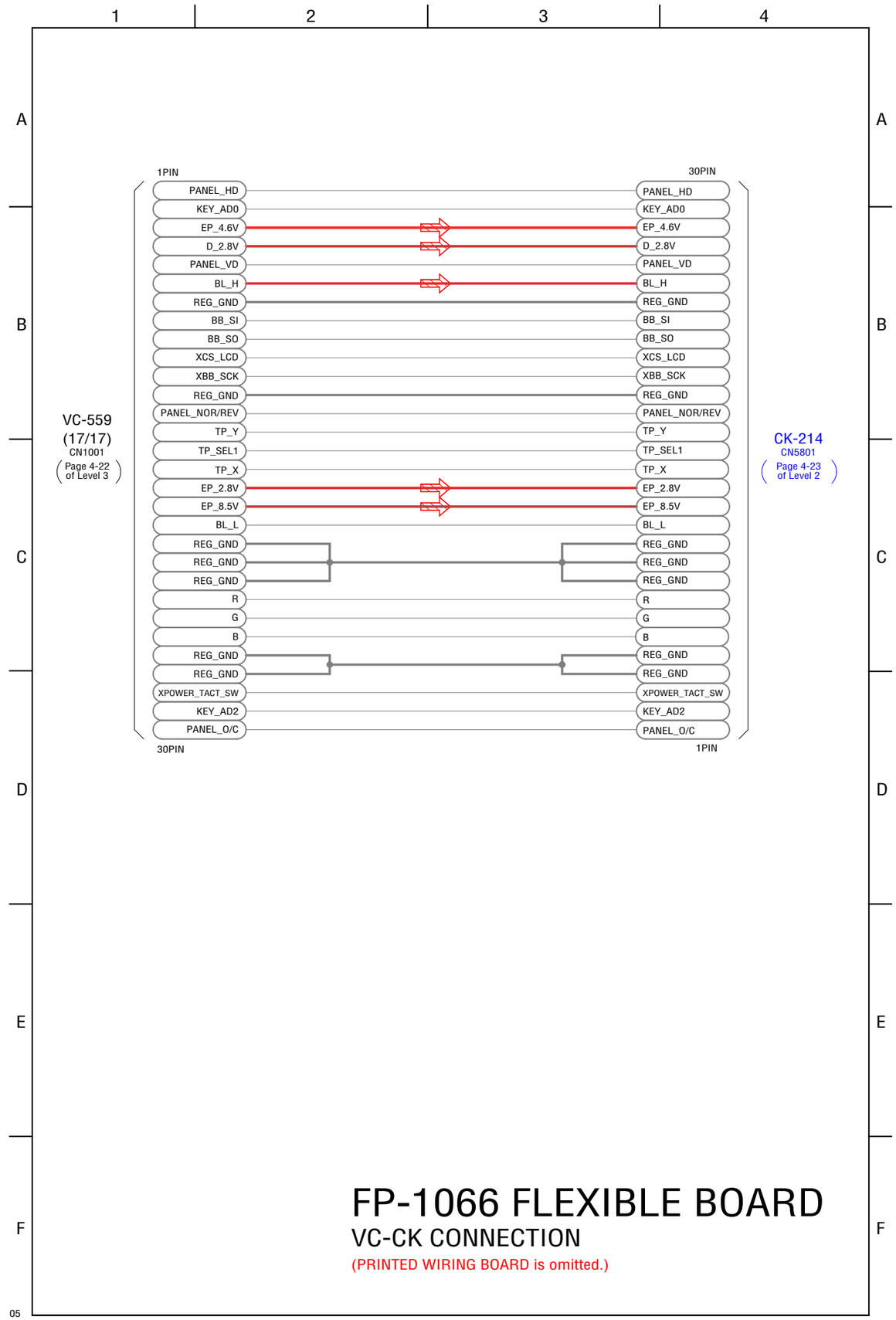
HD-040 BOARD

HDMI/USB CONNECTOR

XX MARK:NO MOUNT

OC-019 BOARD

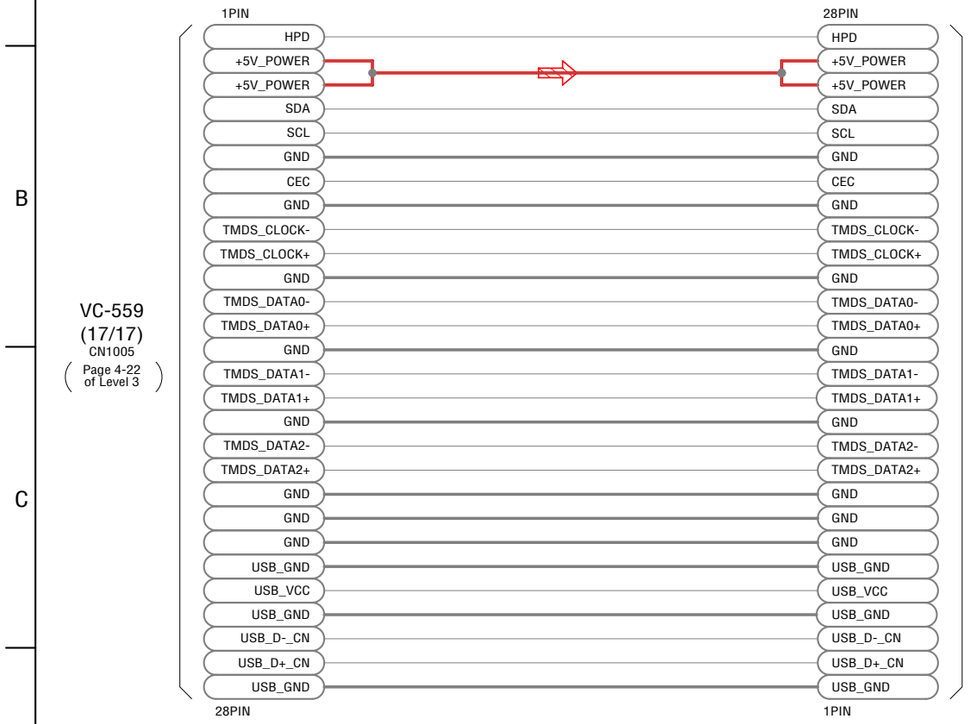
PANEL OPEN/CLOSE SWITCH



FP-1066 FLEXIBLE BOARD

VC-CK CONNECTION

(PRINTED WIRING BOARD is omitted.)



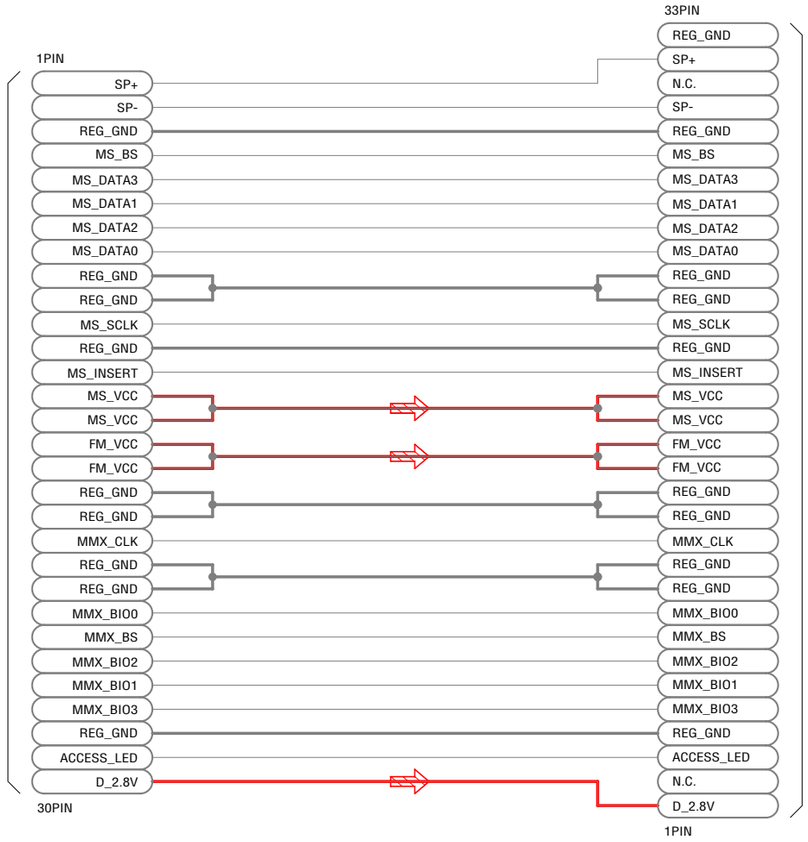
VC-559
(17/17)
CN1005
(Page 4-22 of Level 3)

HD-040
CN8501
(Page 4-28 of Level 2)

FP-1067 FLEXIBLE BOARD

VC-HD CONNECTION

(PRINTED WIRING BOARD is omitted.)



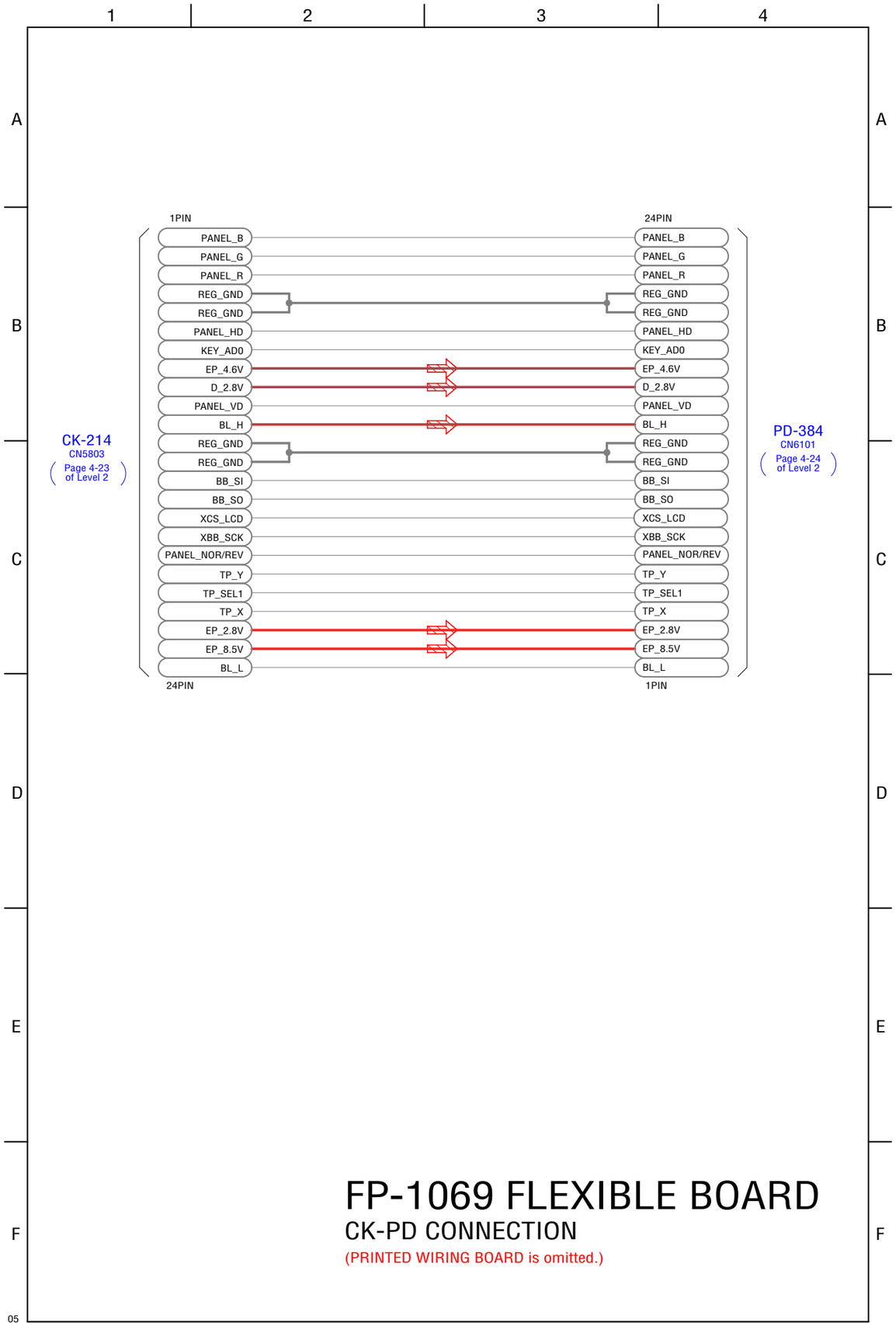
VC-559
(17/17)
CN1003
(Page 4-22 of Level 3)

MS-419
CN7301
(Page 4-27 of Level 2)

FP-1068 FLEXIBLE BOARD

VC-MS CONNECTION

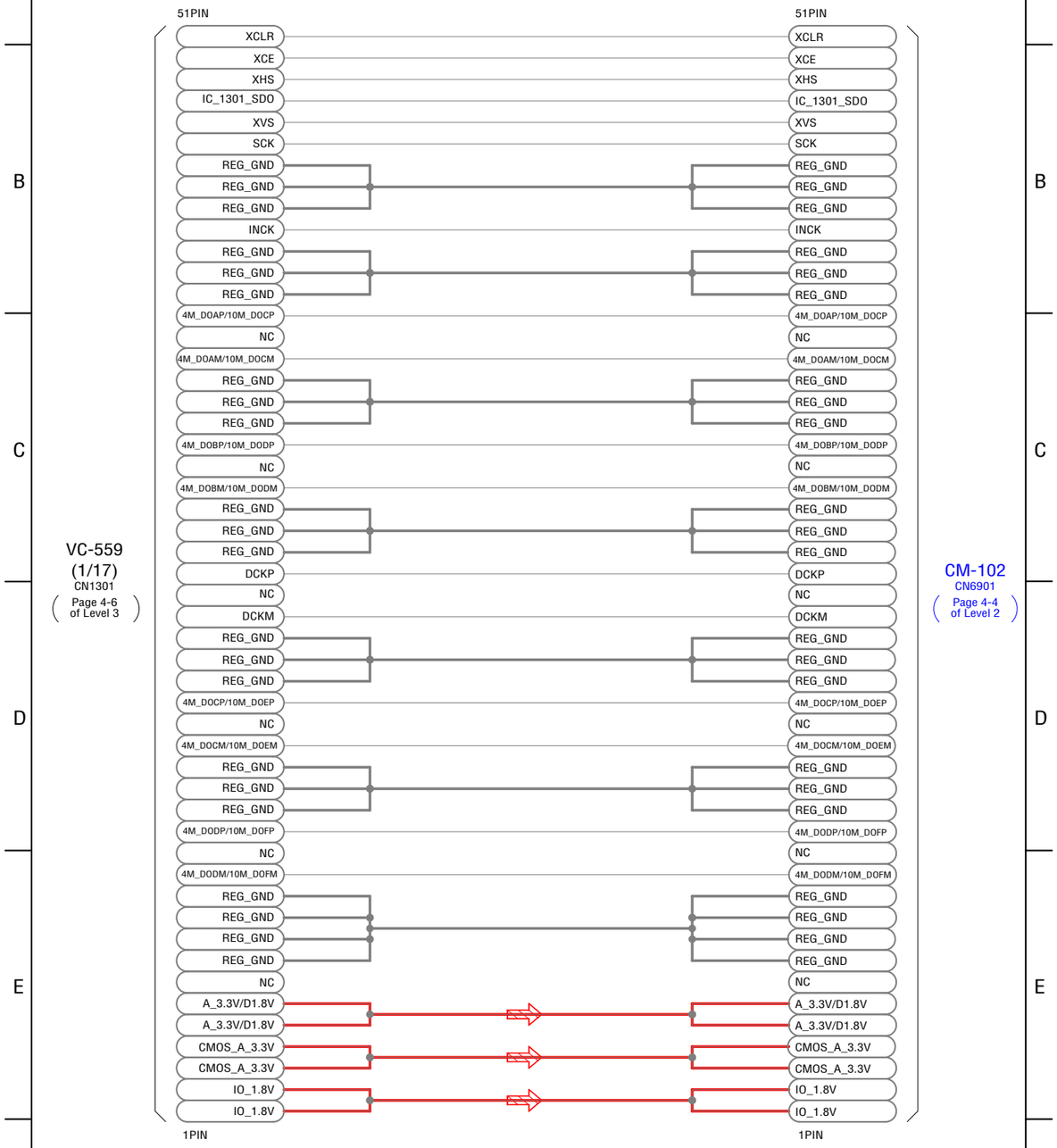
(PRINTED WIRING BOARD is omitted.)



FP-1069 FLEXIBLE BOARD

CK-PD CONNECTION

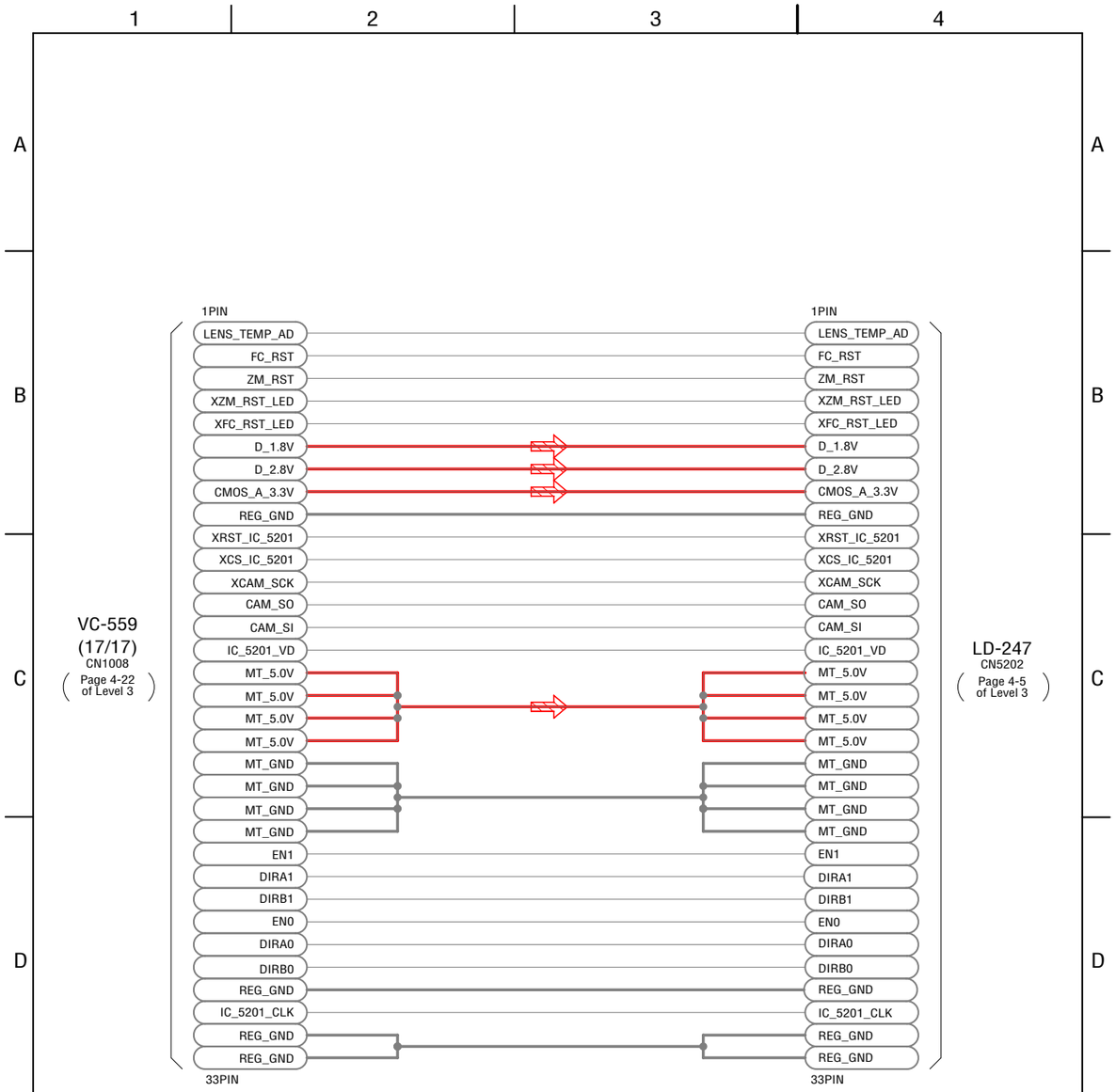
(PRINTED WIRING BOARD is omitted.)



FP-1070 FLEXIBLE BOARD

VC-CM CONNECTION

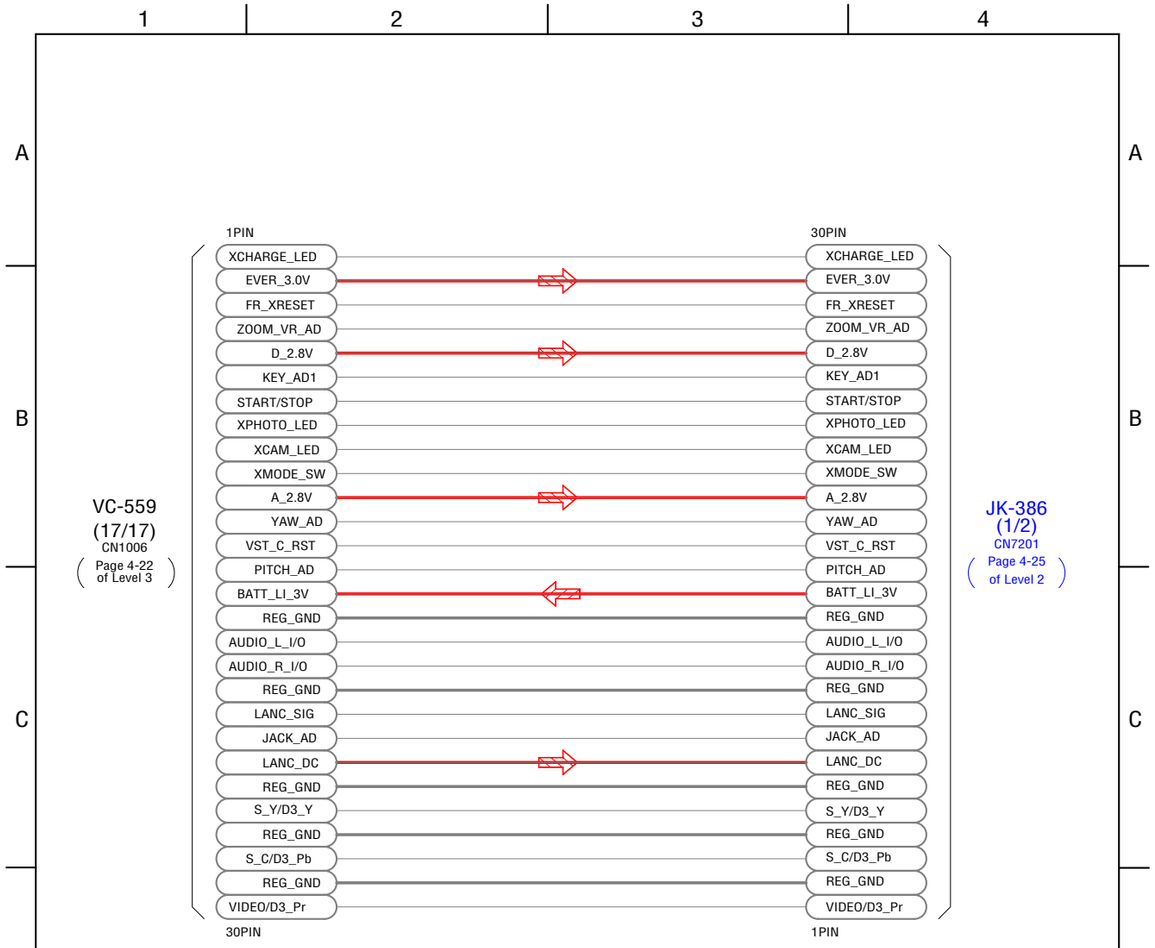
(PRINTED WIRING BOARD is omitted.)



FP-1071 FLEXIBLE BOARD

VC-LD CONNECTION

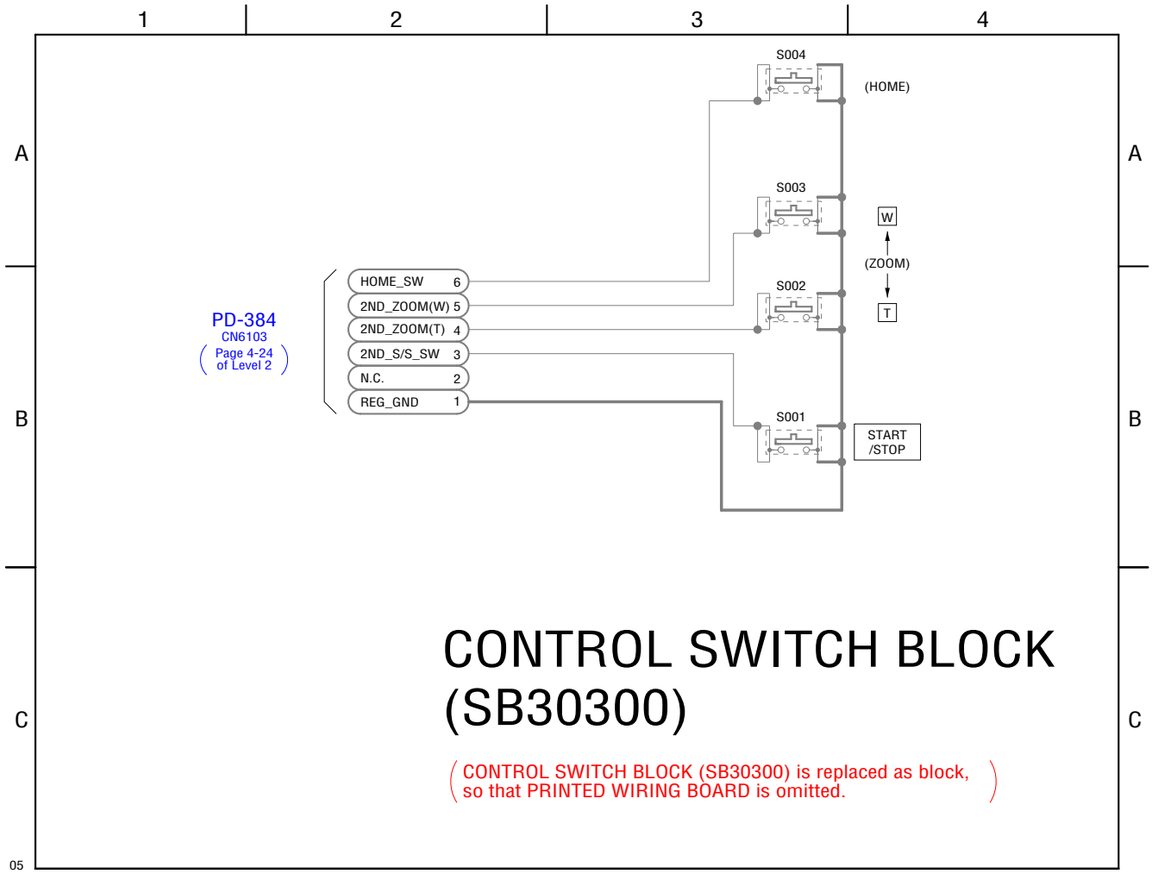
(PRINTED WIRING BOARD is omitted.)



FP-1103 FLEXIBLE BOARD

VC-JK CONNECTION

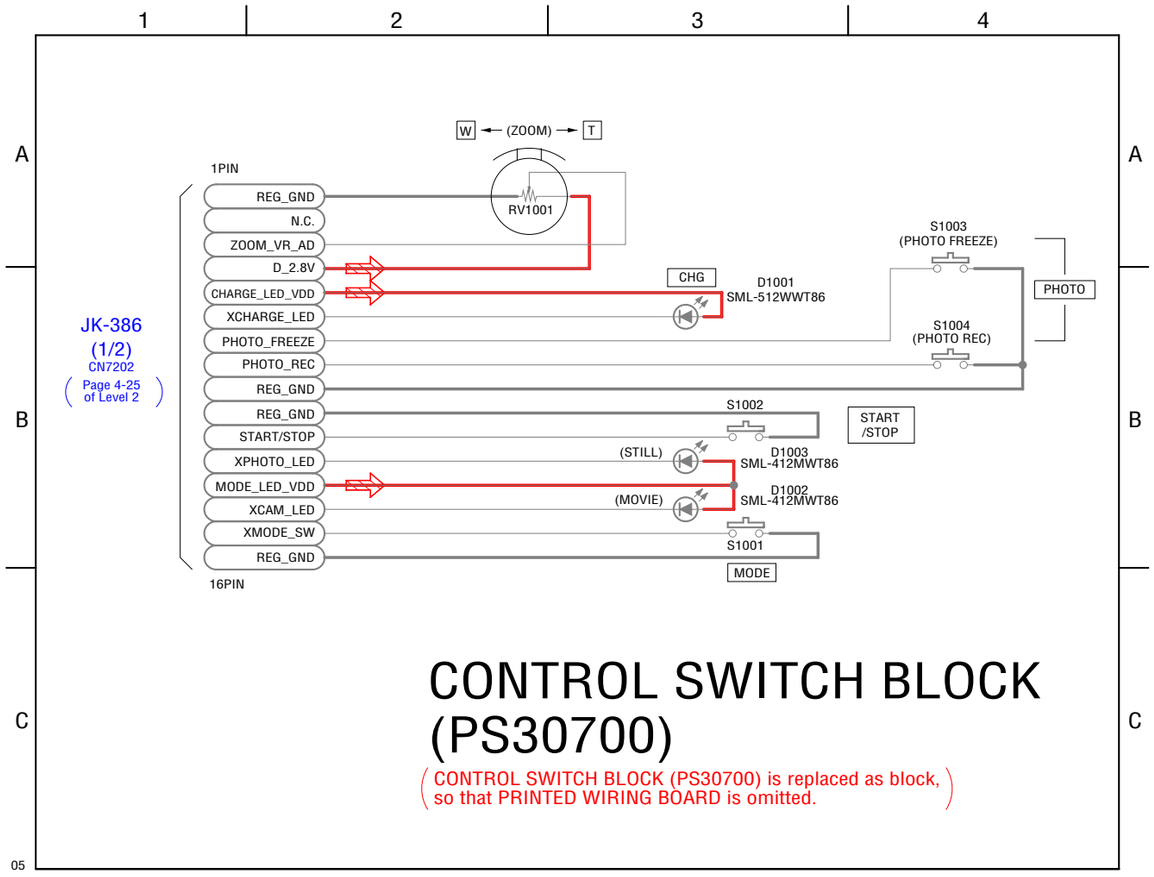
(PRINTED WIRING BOARD is omitted.)



PD-384
CN6103
Page 4-24 of Level 2

CONTROL SWITCH BLOCK (SB30300)

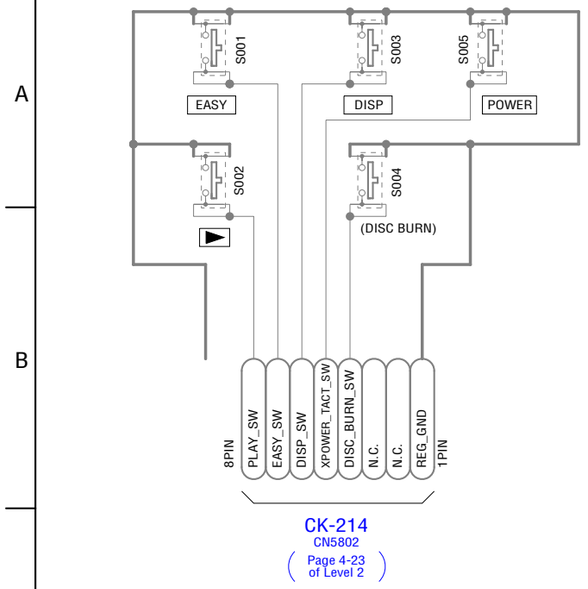
CONTROL SWITCH BLOCK (SB30300) is replaced as block, so that PRINTED WIRING BOARD is omitted.



JK-386
(1/2)
CN7202
Page 4-25 of Level 2

CONTROL SWITCH BLOCK (PS30700)

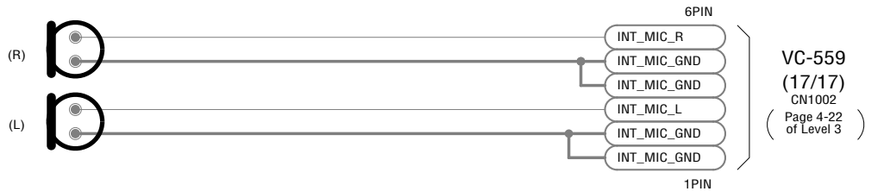
CONTROL SWITCH BLOCK (PS30700) is replaced as block, so that PRINTED WIRING BOARD is omitted.



CK-214
CN5802
Page 4-23 of Level 2

CONTROL SWITCH BLOCK (SK30700)

CONTROL SWITCH BLOCK (SK30700) is replaced as block, so that PRINTED WIRING BOARD is omitted.



VC-559
(17/17)
CN1002
Page 4-22 of Level 3

MICROPHONE UNIT

MICROPHONE UNIT is replaced as block, so that PRINTED WIRING BOARD is omitted.

4-3. PRINTED WIRING BOARDS

Link

CM-102 BOARD	JK-386 BOARD
CK-214 BOARD	MS-419 BOARD
PD-384 BOARD (SIDE A)	HD-040 BOARD
PD-384 BOARD (SIDE B)	OC-019 BOARD

COMMON NOTE FOR PRINTED WIRING BOARDS

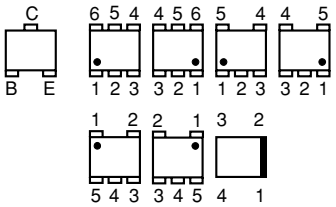
4-3. PRINTED WIRING BOARDS

(ENGLISH)

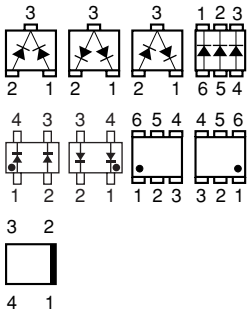
THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS

- : Uses unleaded solder.
- : Circuit board
  : Flexible board
  Pattern from the side which enables seeing.
  : pattern of the rear side
  (The other layers' patterns are not indicated)
- Through hole is omitted.
- There are a few cases that the part printed on diagram isn't mounted in this model.
- : panel designation
- Chip parts.

Transistor



Diode



(JAPANESE)

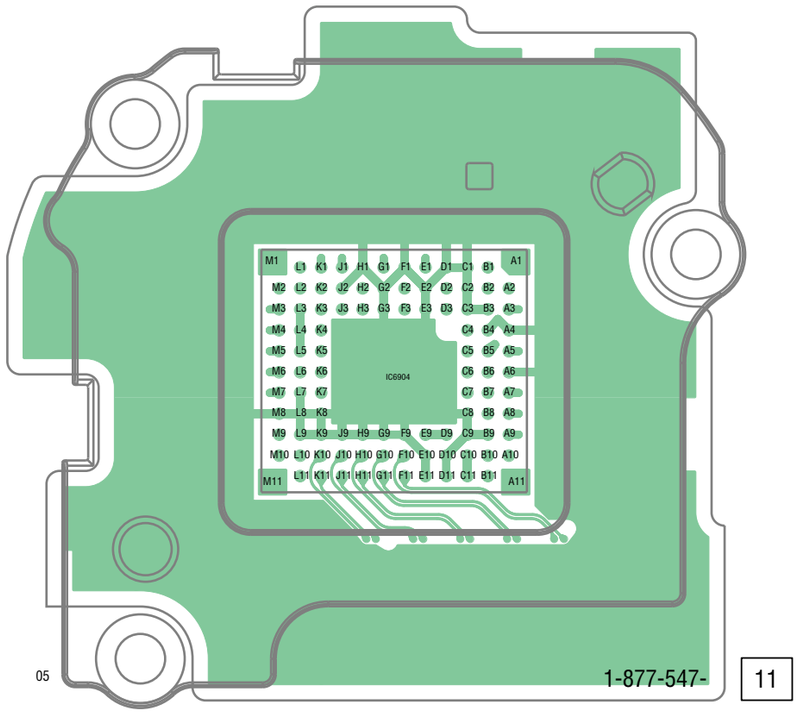
プリント図共通ノート
【プリント図ノート】

- ：無鉛半田を使用しています。
- ：基板
  ：フレキシブル配線板
  見ている面側のパターン。
  ：裏側のパターン
  （他のパターンについては表示されていません）
- スルーホールは省略。
- プリント図には，本機で使用していない部品が記載されている場合があります。
- はパネル表示名称。

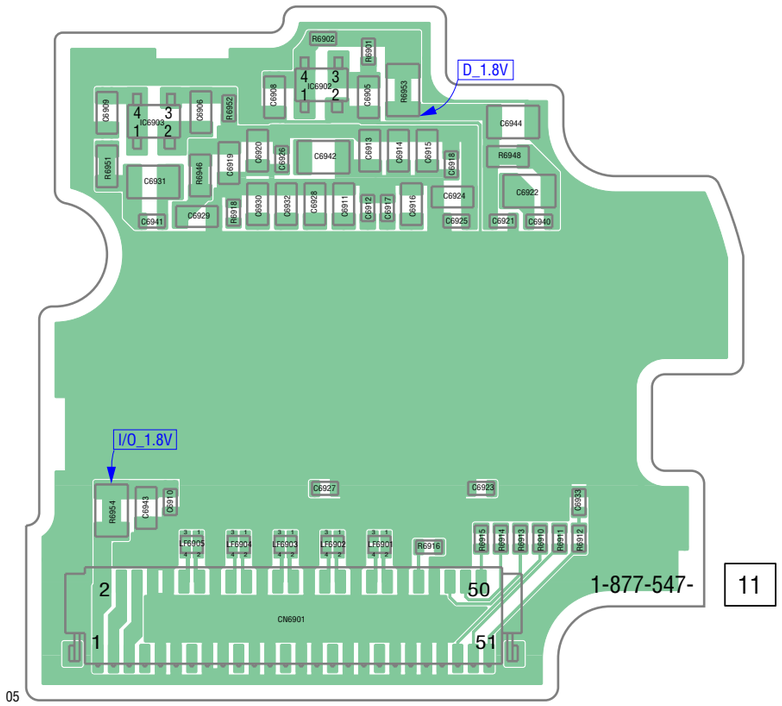
CM-102 (6 layers)

: Uses unleaded solder.

CM-102 BOARD (SIDE A)



CM-102 BOARD (SIDE B)



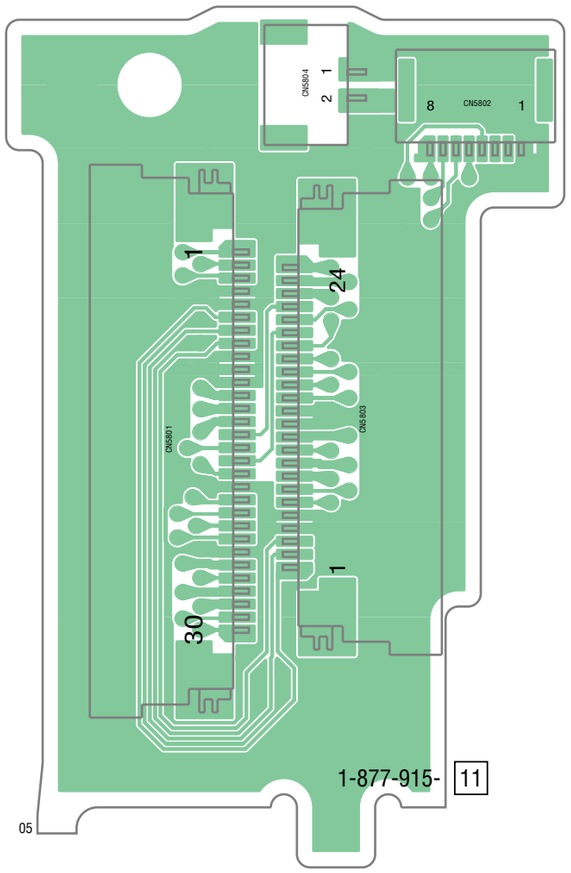
Note: IC6904 (CMOS imager) is not supplied,
but this is included in CM-102 complete board.

Printed wiring boards of the LD-247 and VC-548 boards are not shown.
Pages from 4-35 to 4-37 are not shown.

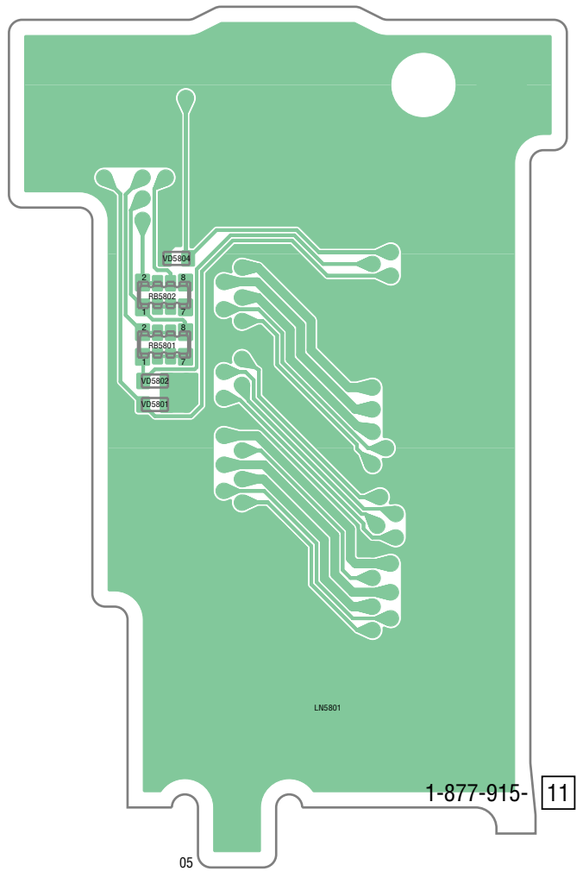
CK-214 (2 layers)

: Uses unleaded solder.

CK-214 BOARD (SIDE A)



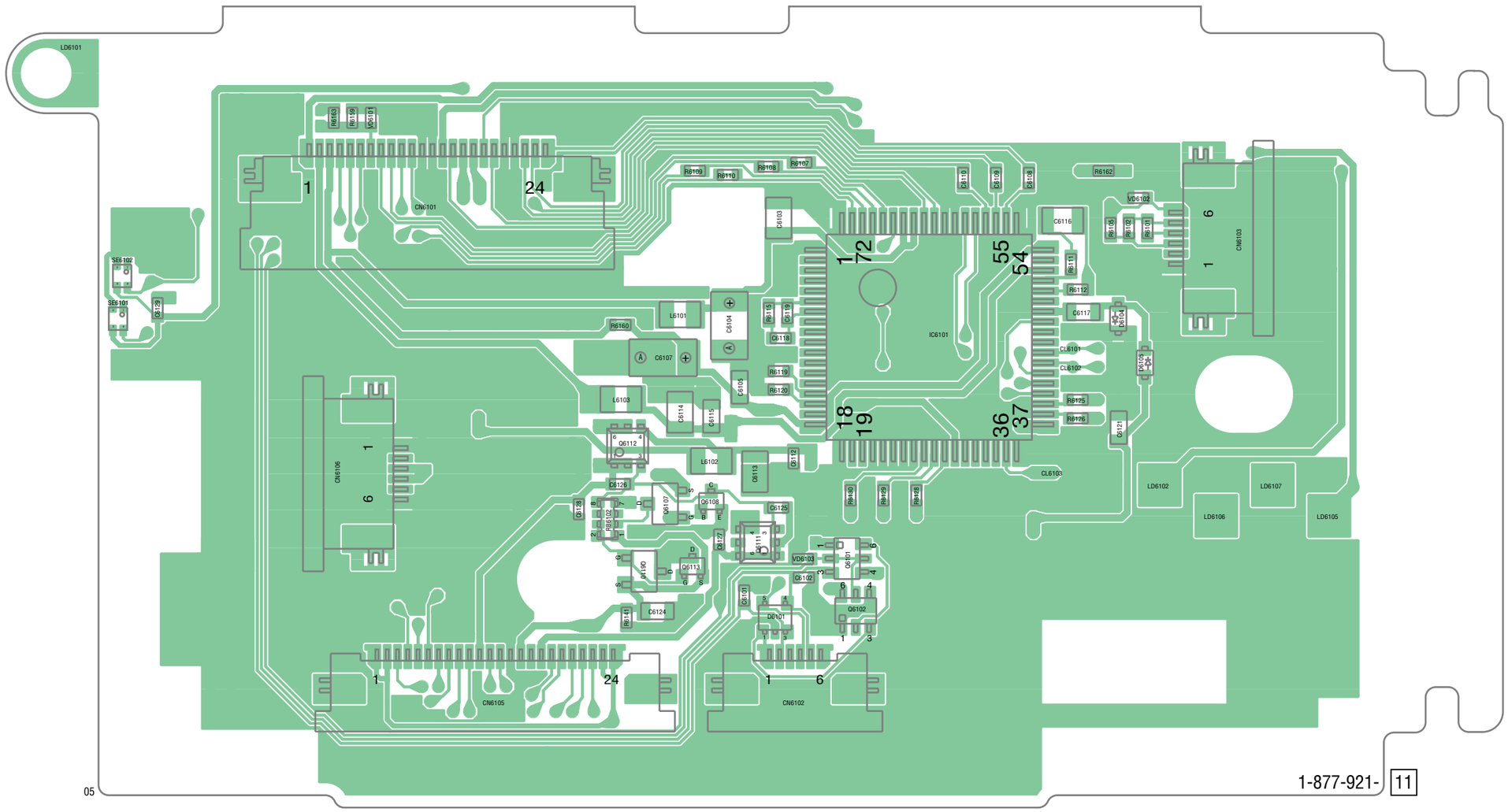
CK-214 BOARD (SIDE B)



PD-384 (2 layers)

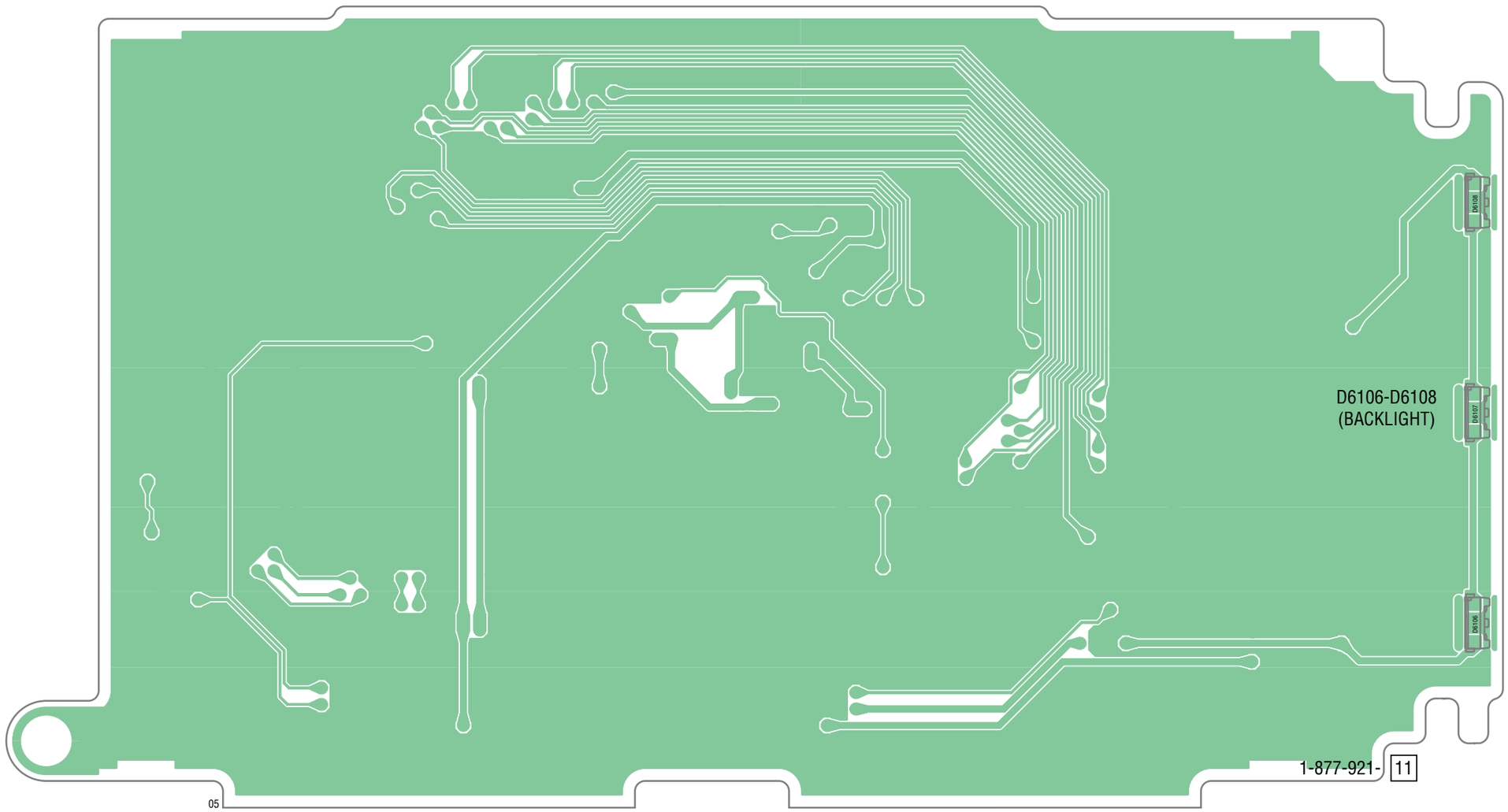
: Uses unleaded solder.

PD-384 BOARD (SIDE A)



: Uses unleaded solder.

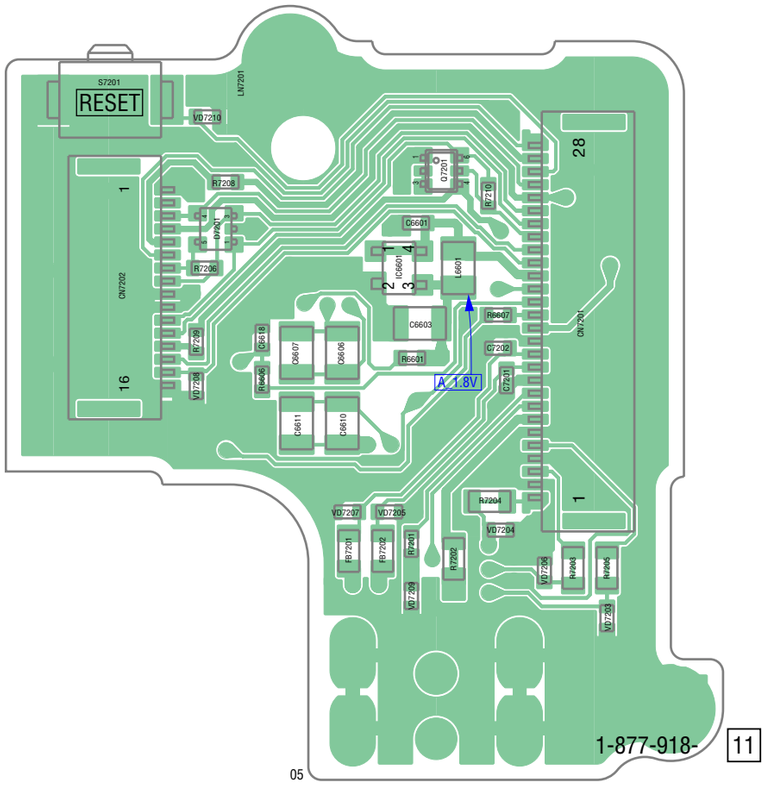
PD-384 BOARD (SIDE B)



JK-386 (2 layers)

: Uses unleaded solder.

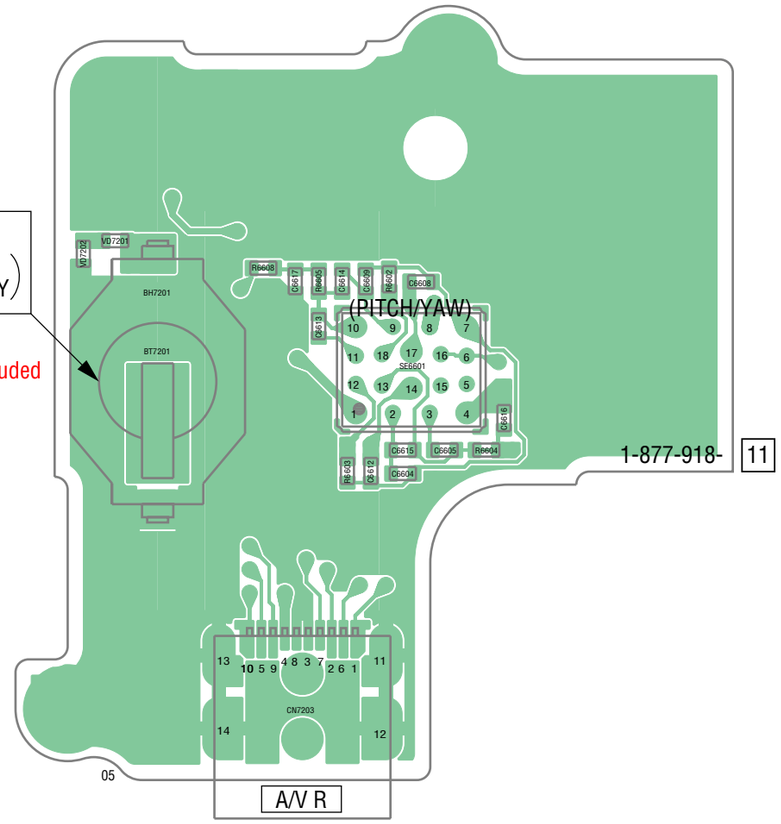
JK-386 BOARD (SIDE A)



JK-386 BOARD (SIDE B)

BT7201
BATTERY,
LITHIUM SECONDARY

Note: BT7201 (lithium battery) is not included in JK-386 complete board.



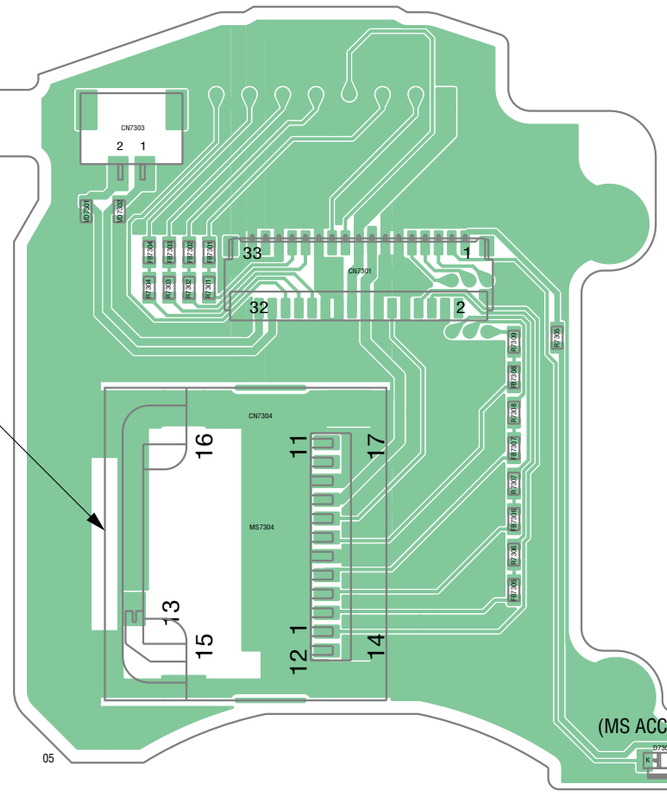
CAUTION
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.
Dispose of used batteries according to the instructions.

注意
電池の交換は，正しく行わないと破裂する恐れがあります。
電池を交換する場合には必ず同じ型名の電池又は同等品と交換してください。
使用済み電池は，取扱指示に従って処分してください。

MS-419 (2 layers)

: Uses unleaded solder.

MS-419 BOARD (SIDE A)



MS7304
INTERNAL MEMORY
MEMORY STICK MICRO
8GB/16GB

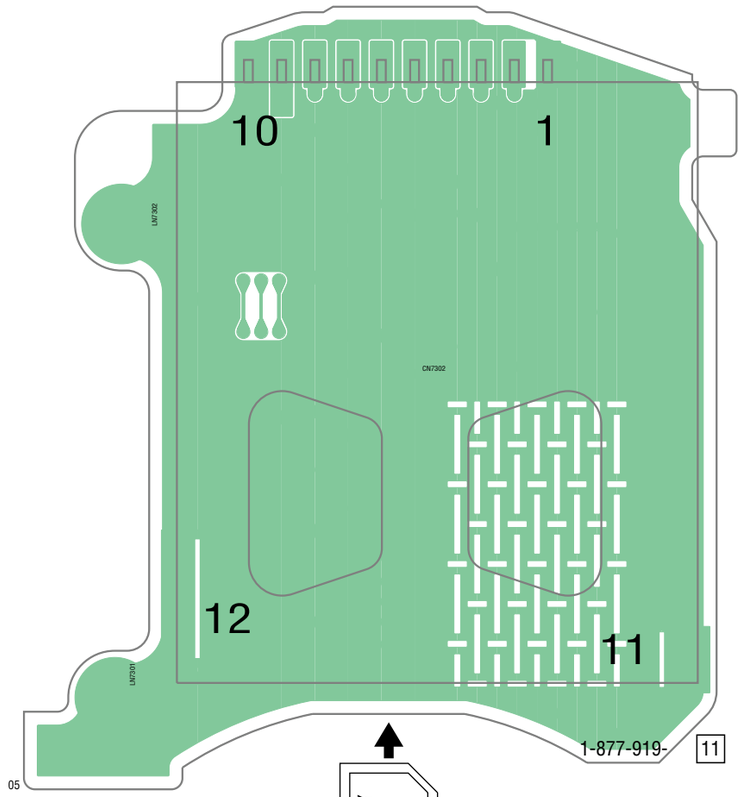
8GB: CX100/CX100E/
CX105E/CX106E
16GB: CX120

Note: CN7304 (card connector) is not supplied, but this is included in MS-419 complete board.

Note: MS7304 is not included in MS-419 complete board.

1-877-919-11

MS-419 BOARD (SIDE B)



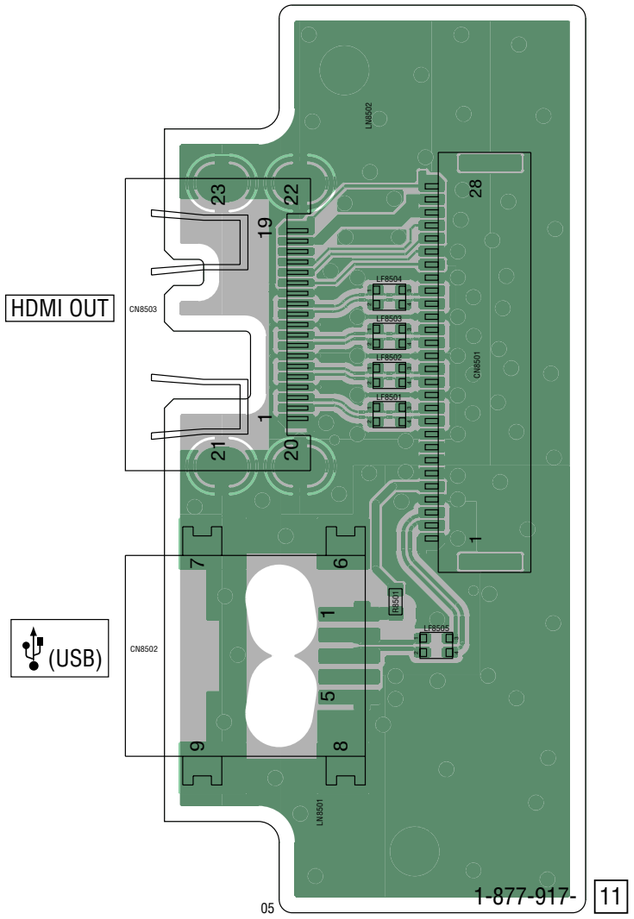
1-877-919-11

MEMORY STICK DUO

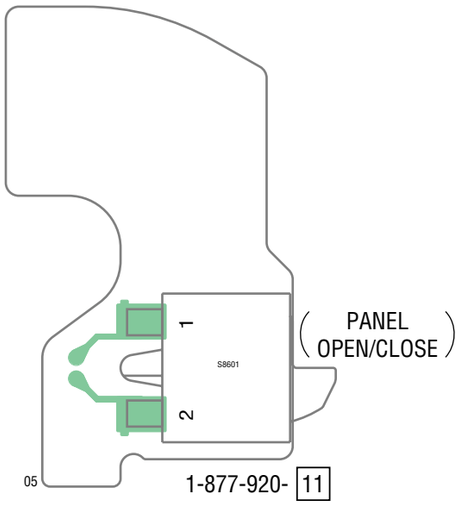
HD-040 (2 layers), OC-019 (2 layers)

: Uses unleaded solder.

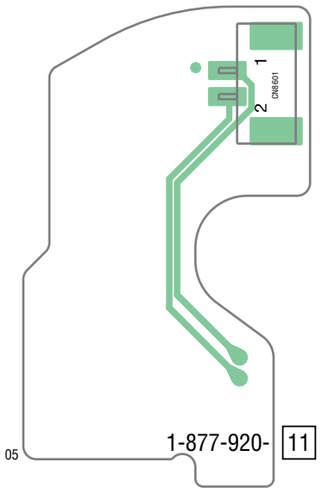
HD-040 BOARD



OC-019 BOARD (SIDE A)



OC-019 BOARD (SIDE B)



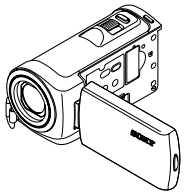
NOTE

5. REPAIR PARTS LIST

NOTE: Characters A to Z of the electrical parts list indicate location of exploded views in which the desired part is shown.

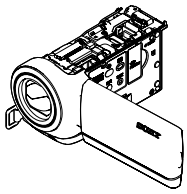
Link

EXPLODED VIEWS



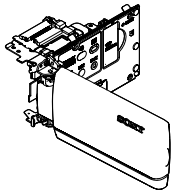
A

OVERALL SECTION



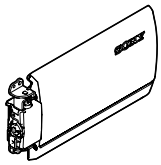
B

FRONT CABINET SECTION



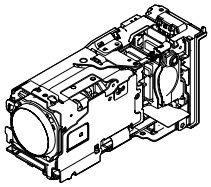
C

CABINET (R) SECTION



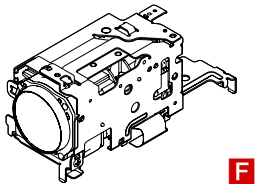
D

LCD PANEL SECTION



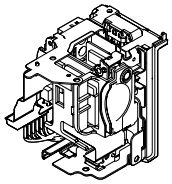
E

MAIN BOARD SECTION



F

LENS SECTION



G

BT PANEL SECTION

Link

ELECTRICAL PARTS LIST

ACCESSORIES

CK-214 BOARD C	JK-386 BOARD G	OC-019 BOARD C
CM-102 BOARD F	MS-419 BOARD G	PD-384 BOARD D
HD-040 BOARD C		

5. REPAIR PARTS LIST

(ENGLISH)

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- CAPACITORS:
  uF: µF
- COILS
  uH: µH
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... ,
  uPB... , µPB... , uPC... , µPC... ,
  uPD..., µPD...

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

- Color Indication of Appearance Parts
  Example:
  (SILVER) : Cabinet's Color
  (Silver) : Parts Color

(JAPANESE)

【使用上の注意】

- ここに記載されている部品は, 補修用部品であるため, 回路図及びセットに付いている部品と異なる場合があります。
- -XX, -Xは標準化部品のため, セットに付いている部品と異なる場合があります。
- *印の部品は常備在庫しておりません。
- コンデンサの単位でuFは µFを示します。
- 抵抗の単位Ωは省略してあります。
  金　　被：金属被膜抵抗。
  サンキン：酸化金属被膜抵抗。
- インダクタの単位でuHは µHを示します。
- 半導体の名称でuA..., uPA..., uPB..., uPC..., uPD...等はそれぞれ µA..., µPA..., µPB..., µPC..., µPD...を示します。

お願い
図面番号で部品を指定するときは基板名又はブロックを併せて指定してください。

⚠印の部品，または⚠印付の点線で囲まれた部品は，安全性を維持するために，重要な部品です。
従って交換時は，必ず指定の部品を使用してください。

- 外装部品色表示
  例：
  (SILVER):セットの色を表す。
  (Silver) : 部品の色を表す。

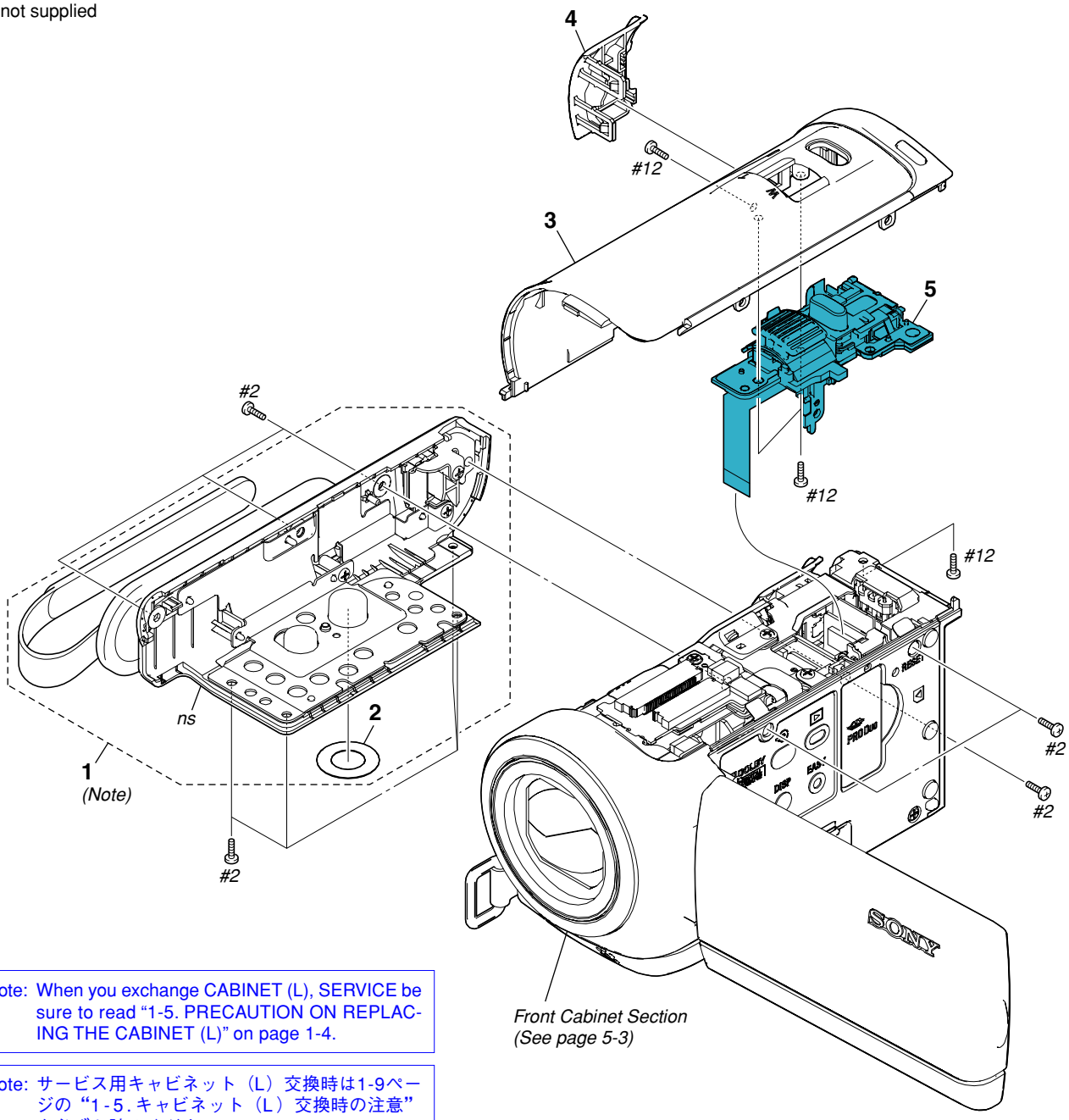
- Abbreviation
  AR : Argentine model
  AUS : Australian model
  BR : Brazilian model
  CH : Chinese model
  CND : Canadian model
  EE : East European model
  HK : Hong Kong model
  J : Japanese model
  JE : Tourist model
  KR : Korea model
  NE : North European model
  TH : Thai model

DISASSEMBLY HARDWARE LIST

5-1. EXPLODED VIEWS

5-1-1. OVERALL SECTION

ns: not supplied



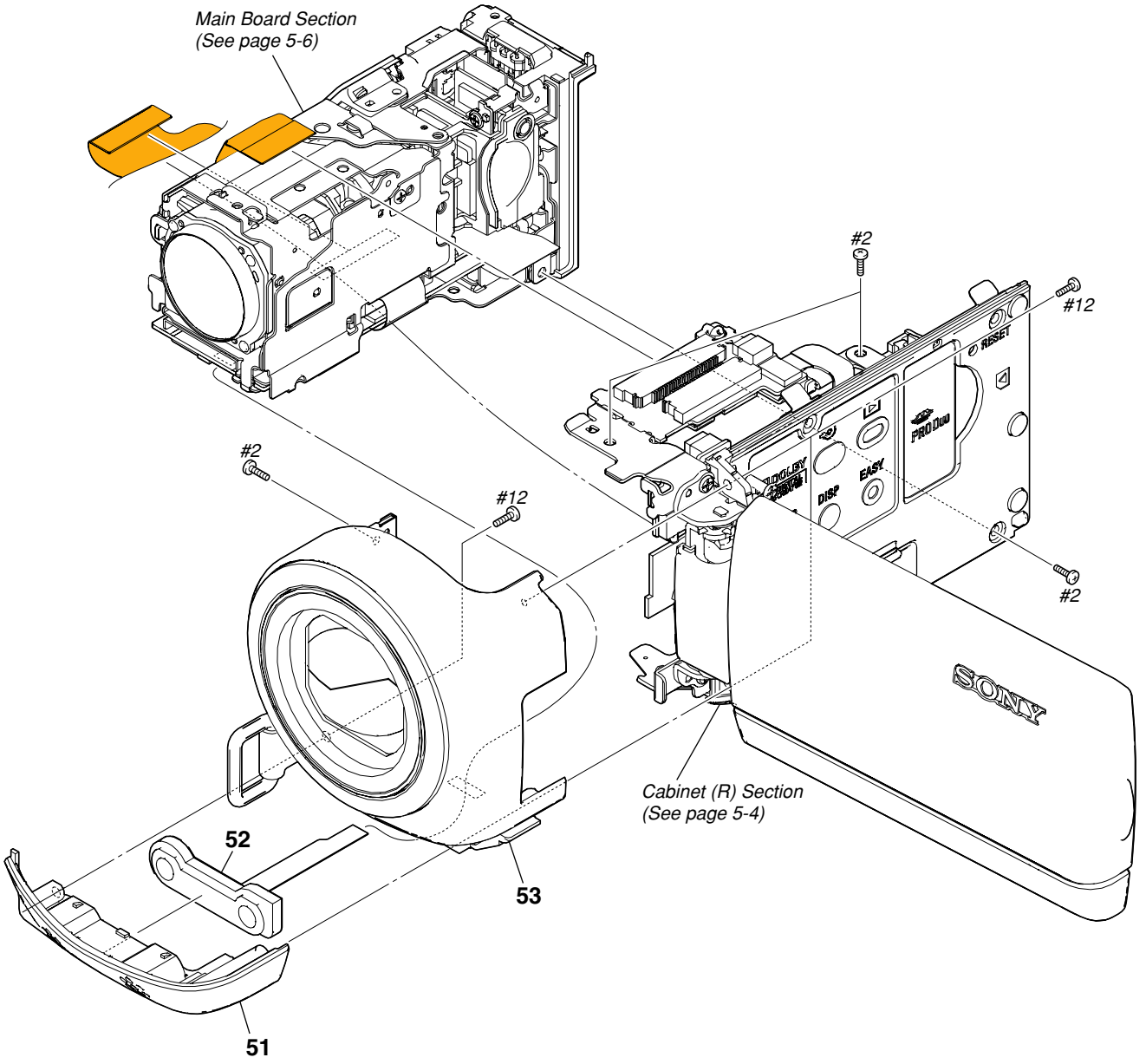
Note: When you exchange CABINET (L), SERVICE be sure to read “1-5. PRECAUTION ON REPLACING THE CABINET (L)” on page 1-4.

Note: サービス用キャビネット（L）交換時は1-9ページの“1-5. キャビネット（L）交換時の注意”を必ずお読みください。

Ref. No.	Part No.	Description
1	(Note)	CABINET (L), SERVICE
2	3-294-467-01	SHEET (266), TRIPOD
3	X-2345-259-1	CABINET (UPPER) ASSY (S) (SILVER)
3	X-2345-260-1	CABINET (UPPER) ASSY (B) (BLACK)
3	X-2345-261-1	CABINET (UPPER) ASSY (R) (RED)

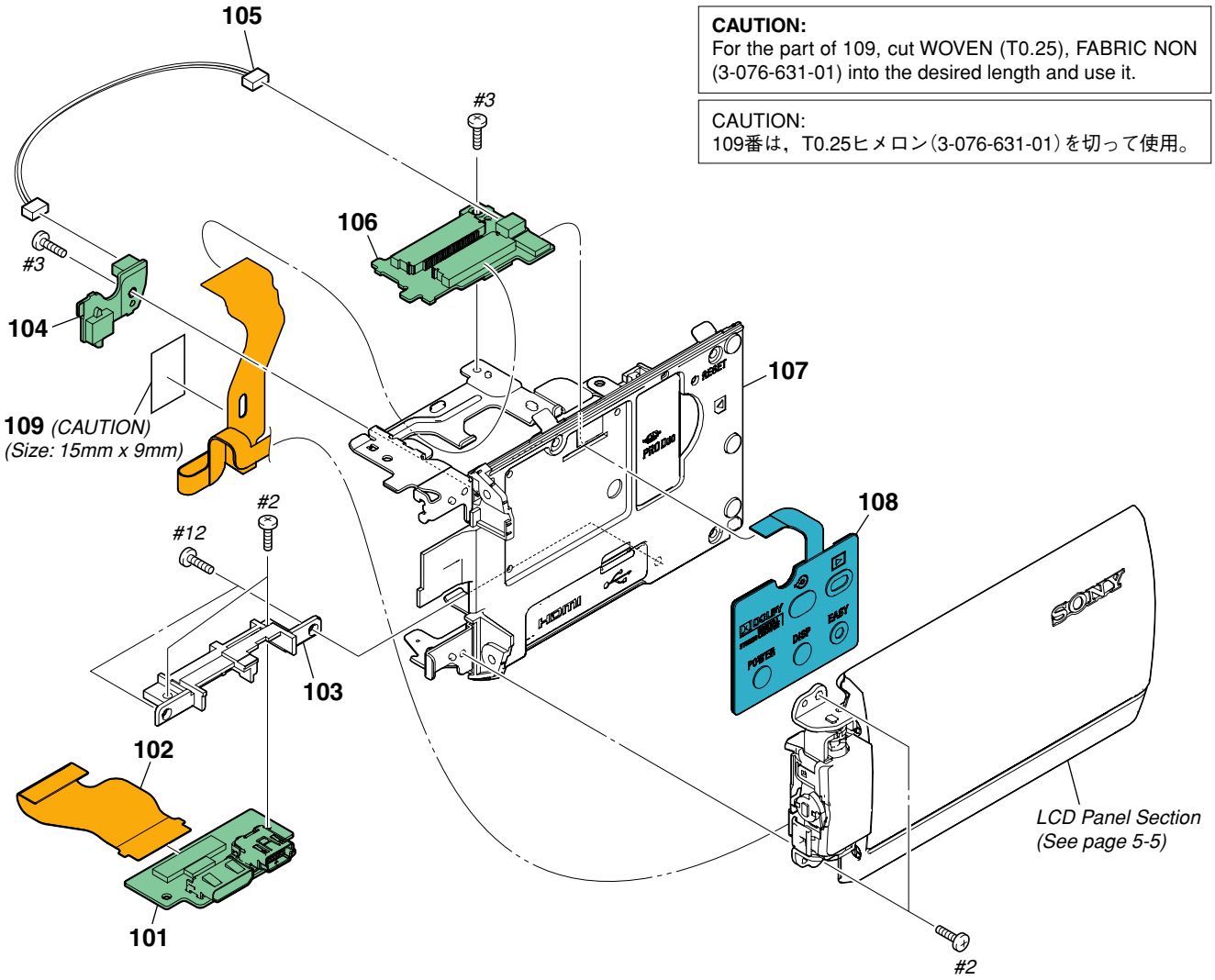
Ref. No.	Part No.	Description
4	4-131-903-01	COVER, DC/AV
5	1-487-113-11	SWITCH BLOCK, CONTROL (PS30700)
#2	2-635-562-31	SCREW (M1.7) (Black)
#12	3-080-204-21	SCREW, TAPPING, P2 (Black)

5-1-2. FRONT CABINET SECTION



Ref. No.	Part No.	Description
51	4-132-118-01	CABINET (LOWER), FRONT
52	1-542-794-11	MICROPHONE UNIT
53	X-2345-290-1	CABINET ASSY (S), F (SILVER)
53	X-2345-291-1	CABINET ASSY (B), F (BLACK)
53	X-2345-292-1	CABINET ASSY (R), F (RED)
#2	2-635-562-31	SCREW (M1.7) (Black)
#12	3-080-204-21	SCREW, TAPPING, P2 (Black)

5-1-3. CABINET (R) SECTION



CAUTION:
For the part of 109, cut WOVEN (T0.25), FABRIC NON (3-076-631-01) into the desired length and use it.

CAUTION:
109番は，T0.25ヒメロン(3-076-631-01)を切って使用。

Ref. No.	Part No.	Description
101	A-1650-370-A	HD-040 BOARD, COMPLETE
102	1-877-924-11	FP-1067 FLEXIBLE BOARD
* 103	4-131-812-01	RETAINER, H/U TERMINAL
104	A-1650-373-A	OC-019 BOARD, COMPLETE
105	1-965-617-11	HARNESS (HN-057)
106	A-1650-369-A	CK-214 BOARD, COMPLETE

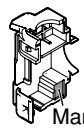
Ref. No.	Part No.	Description
107	X-2345-253-1	CABINET (R) ASSY
108	1-487-121-11	SWITCH BLOCK, CONTROL (SK30700)
109	CAUTION	TAPE (W)
#2	2-635-562-31	SCREW (M1.7) (Black)
#3	2-660-401-01	SCREW (M1.7), NEW TRU-STAR, P2 (Red)
#12	3-080-204-21	SCREW, TAPPING, P2 (Black)

5-1-4. LCD PANEL SECTION

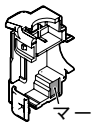
DISASSEMBLY HARDWARE LIST

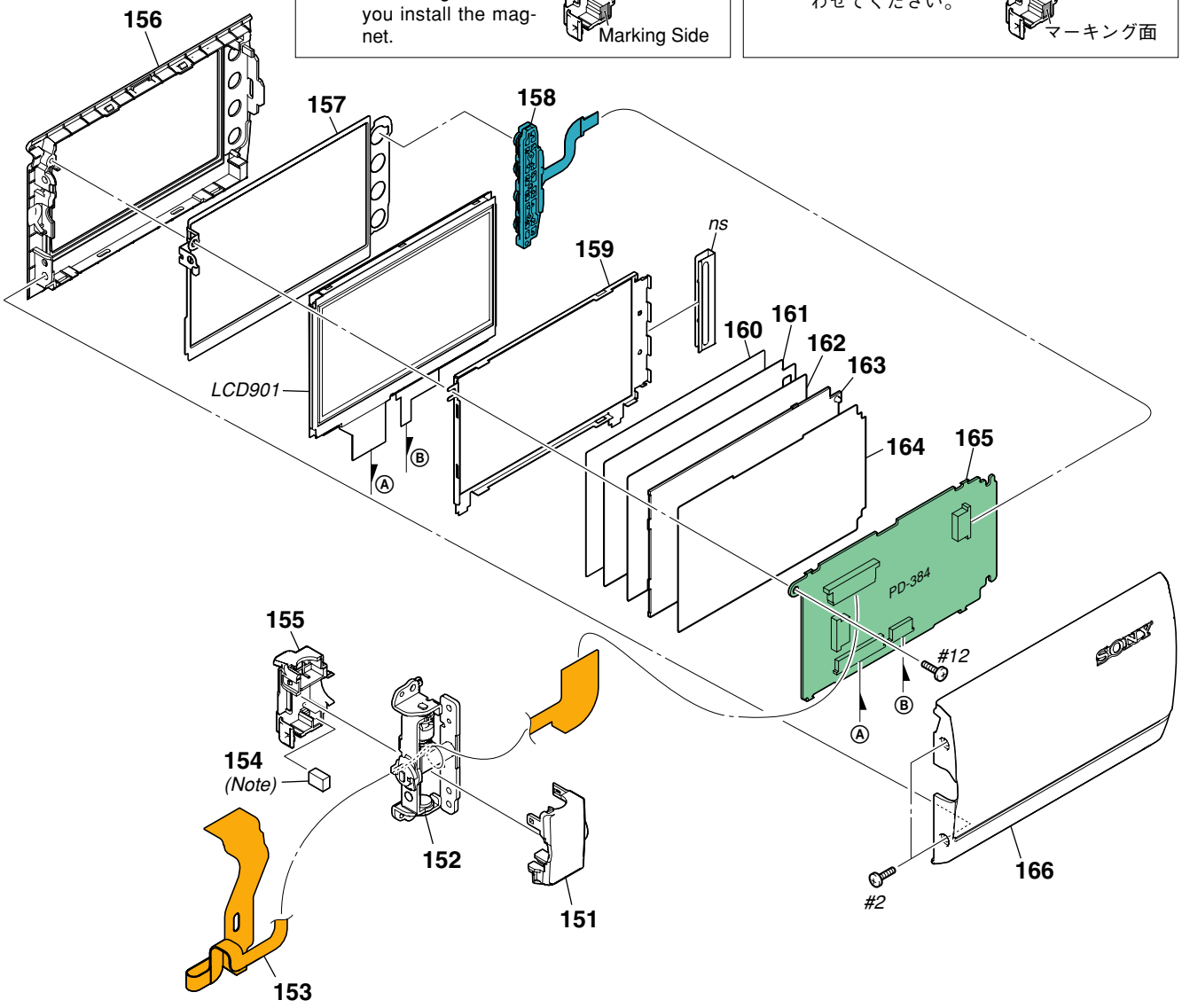
ns: not supplied

Note: Put the marking side together on the position of figure when you install the magnet.



Note: マグネットを取付ける際は，マーキング面を図の位置にあわせてください。



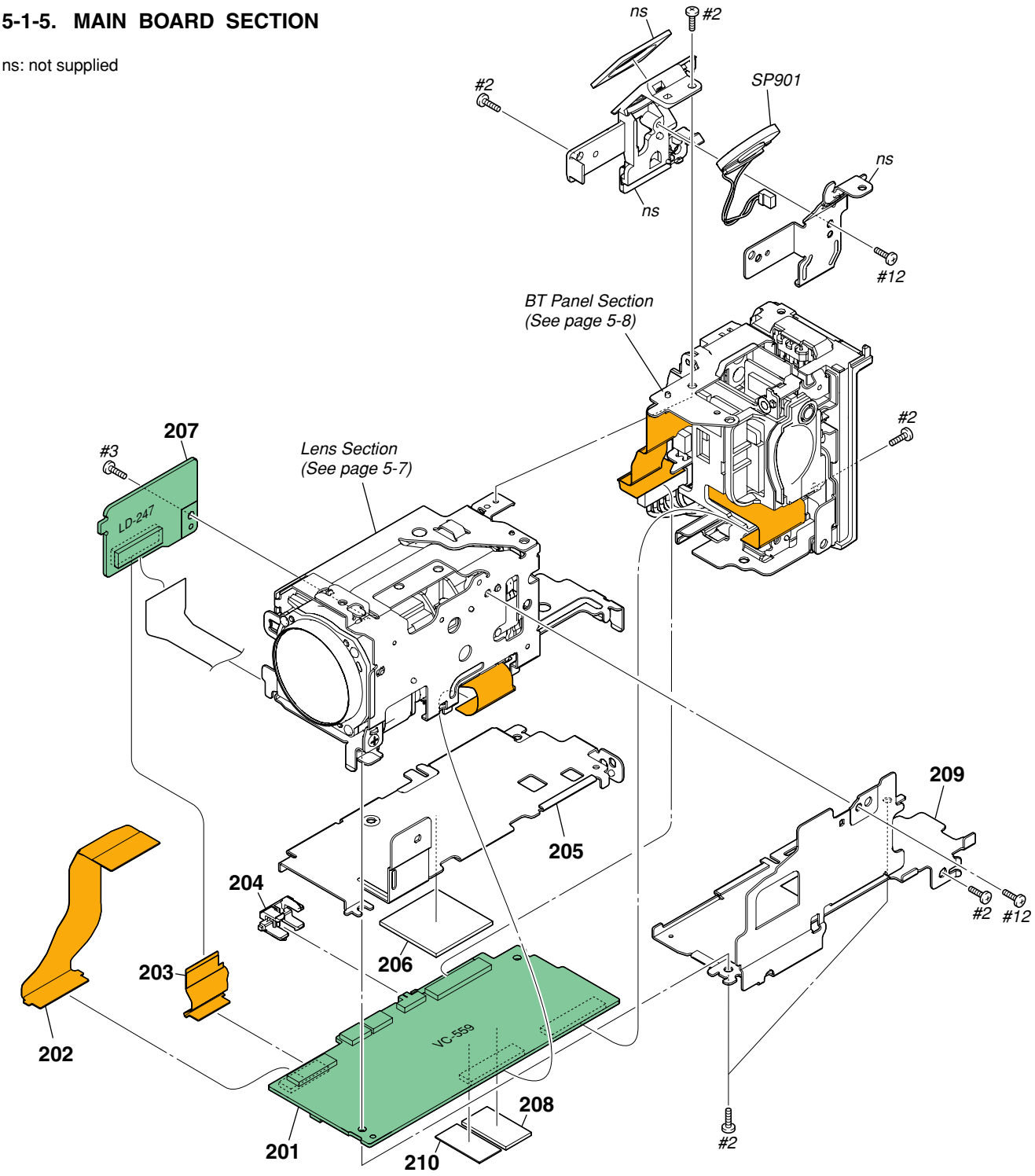


Ref. No.	Part No.	Description
151	4-130-559-01	COVER (C), HINGE (SILVER)
151	4-130-559-11	COVER (C), HINGE (BLACK)
151	4-130-559-21	COVER (C), HINGE (RED)
152	X-2342-900-1	HINGE ASSY (303)
153	1-877-926-11	FP-1069 FLEXIBLE BOARD
154	1-471-504-11	MAGNET (ND5X3.5X2.4-B) (Note)
155	4-131-817-01	COVER (M), HINGE
156	4-131-813-01	CABINET (M), P
157	4-131-814-01	PLATE, LCD GROUND
158	1-487-053-11	SWITCH BLOCK, CONTROL (SB30300)
159	2-694-516-01	FRONT FRAME (2.7)
160	2-694-512-01	PRISM SHEET V (2.7)
161	2-694-513-01	PRISM SHEET H (2.7)
162	2-694-514-01	DIFFUSION SHEET (2.7)
163	2-666-801-01	LIGHT GUIDE (2.7)
164	2-694-515-01	REFLECTION SHEET (2.7)
165	A-1650-374-A	PD-384 BOARD, COMPLETE
166	X-2345-243-1	CABINET (C) ASSY (S), P (CX100: SILVER/CX100E: SILVER)

Ref. No.	Part No.	Description
166	X-2345-244-1	CABINET (C) ASSY (B), P (CX100: BLACK/CX100E: BLACK)
166	X-2345-245-1	CABINET (C) ASSY (R), P (CX100: RED/CX100E: RED)
166	X-2345-246-1	CABINET (C) ASSY (S) (120), P (CX120: SILVER)
166	X-2345-247-1	CABINET (C) ASSY (B) (120), P (CX120: BLACK)
166	X-2345-248-1	CABINET (C) ASSY (R) (120), P (CX120: RED)
166	X-2345-249-1	CABINET (C) ASSY (S) (105), P (CX105E: SILVER)
166	X-2345-250-1	CABINET (C) ASSY (B) (105), P (CX105E: BLACK)
166	X-2345-251-1	CABINET (C) ASSY (R) (105), P (CX105E: RED)
166	X-2345-252-1	CABINET (C) ASSY (S) (106), P (CX106E)
LCD901	A-1228-786-A	TP BLOCK ASSY (27ESHGU07)
#2	2-635-562-31	SCREW (M1.7) (Black)
#12	3-080-204-21	SCREW, TAPPING, P2 (Black)

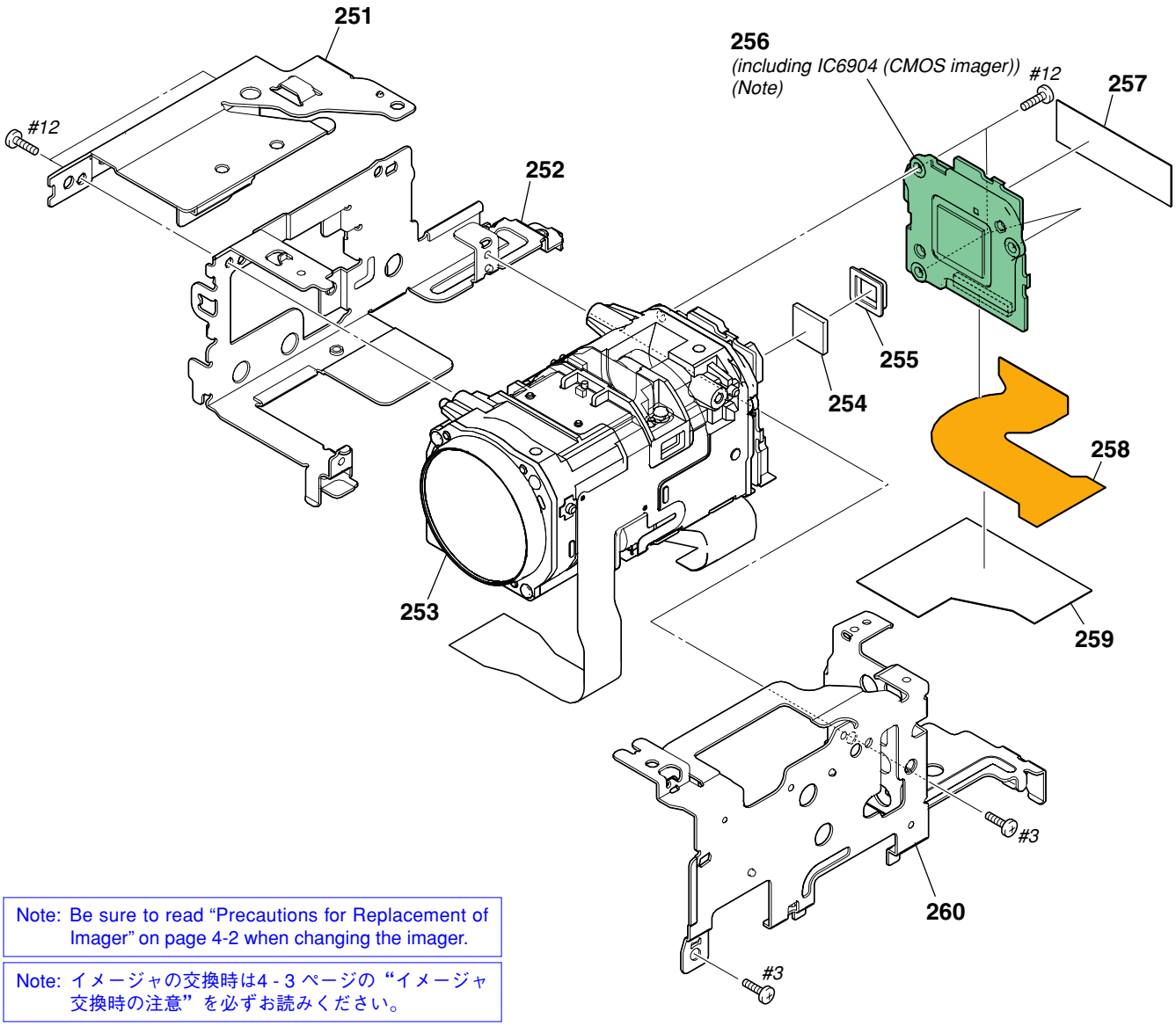
5-1-5. MAIN BOARD SECTION

ns: not supplied



Ref. No.	Part No.	Description
201	A-1710-496-A	VC-559 BOARD, COMPLETE (SERVICE) (CX100/CX120)
201	A-1716-618-A	VC-559 BOARD, COMPLETE (SERVICE) (CX105E/CX106E)
201	A-1717-212-A	VC-559 BOARD, COMPLETE (SERVICE) (CX100E)
202	1-877-923-11	FP-1066 FLEXIBLE BOARD
203	1-877-928-11	FP-1071 FLEXIBLE BOARD
* 204	4-131-830-01	CLIP, VC
* 205	4-131-828-01	HEAT SINK (UPPER), VC
* 206	4-131-831-01	SHEET (UPPER), VC RADIATION
207	A-1650-368-A	LD-247 BOARD, COMPLETE
* 208	4-131-832-01	SHEET (LOWER), VC RADIATION
* 209	4-131-829-01	HEAT SINK (LOWER), VC
210	4-138-140-01	SHEET, VC ELECTROSTATIC
SP901	1-825-262-81	LOUD SPEAKER (1.6CM)
#2	2-635-562-31	SCREW (M1.7) (Black)
#3	2-660-401-01	SCREW (M1.7), NEW TRU-STAR, P2 (Red)
#12	3-080-204-21	SCREW, TAPPING, P2 (Black)

5-1-6. LENS SECTION



Note: Be sure to read “Precautions for Replacement of Imager” on page 4-2 when changing the imager.

Note: イメージャの交換時は4 - 3 ページの“イメージャ交換時の注意”を必ずお読みください。

Ref. No.	Part No.	Description
* 251	4-131-826-01	HEAT SINK, CM
* 252	4-131-823-01	FRAME (L), LENS
253	1-788-863-11	OPTICAL UNIT (CH002)
254	1-788-916-11	OPTICAL FILTER BLOCK (OFB-05-09)
255	3-279-478-01	RUBBER (CH001), SEAL
256	A-1671-378-A	CM-102 BOARD, COMPLETE (including IC6904 (CMOS imager)) (Note)

Ref. No.	Part No.	Description
* 257	4-131-833-01	SHEET, CM RADIATION
258	1-877-927-11	FP-1070 FLEXIBLE BOARD
* 259	4-131-834-01	SHEET, CM
* 260	4-131-827-01	FRAME (R), LENS
#3	2-660-401-01	SCREW (M1.7), NEW TRU-STAR, P2 (Red)
#12	3-080-204-21	SCREW, TAPPING, P2 (Black)

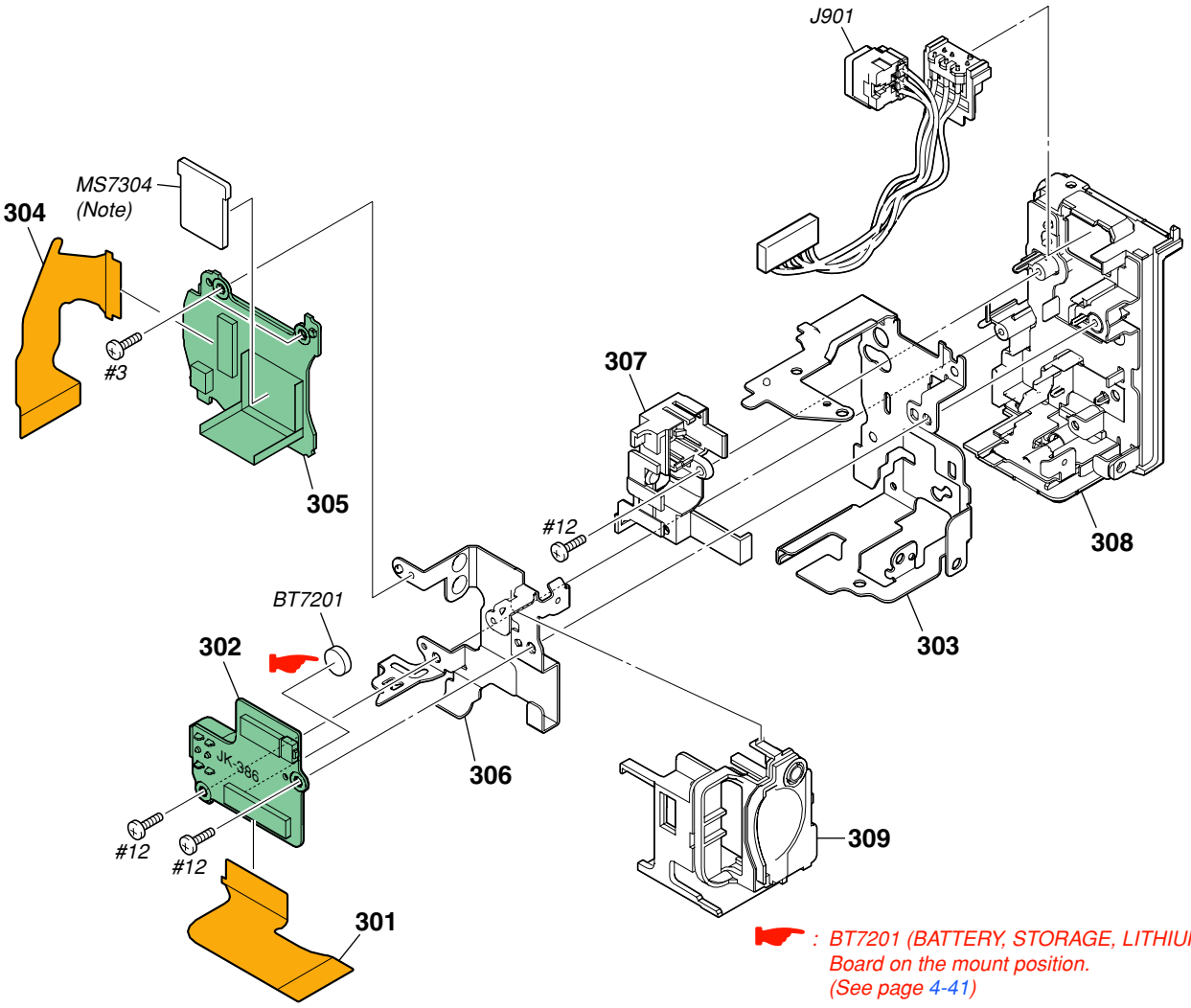
5-1-7. BT PANEL SECTION

CAUTION
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.
Dispose of used batteries according to the instructions.

注意
電池の交換は，正しく行わないと破裂する恐れがあります。
電池を交換する場合には必ず同じ型名の電池又は同等品と交換してください。
使用済み電池は，取扱指示に従って処分してください。

Note: When replacing the internal memory (MS7304 that has been inserted in the MS-419 board), start the Adjust Manual in the Adjust Station and execute the "INTERNAL MEMORY ADJUSTMENTS".

Note: 内蔵メモリー（MS-419基板に挿入されたMS7304）を交換の際は，Adjust StationからAdjust Manualを起動させて「INTERNAL MEMORY ADJUSTMENTS」を実行させてください。



• Refer to page 5-1 for mark ⚠.

Ref. No.	Part No.	Description
301	1-878-198-11	FP-1103 FLEXIBLE BOARD
302	A-1650-371-A	JK-386 BOARD, COMPLETE
* 303	4-132-101-01	HEAT SINK, BT PANEL
304	1-877-925-11	FP-1068 FLEXIBLE BOARD
305	A-1650-372-A	MS-419 BOARD, COMPLETE
* 306	4-132-102-01	RETAINER, TERMINAL BOARD
* 307	4-132-103-01	BASE, JACK
308	X-2345-288-1	PANEL ASSY, BT

Ref. No.	Part No.	Description
309	X-2345-289-1	HOLDER ASSY, MS
⚠ BT7201	1-756-134-12	BATTERY, STORAGE, LITHIUM
⚠ J901	1-822-410-21	DC JACK (DC IN, BATTERY TERMINAL)
MS7304	1-840-234-11	MEMORY STICK (8GB) (CX100/CX100E/CX105E/CX106E) (Note)
MS7304	1-840-234-21	MEMORY STICK (16GB) (CX120) (Note)
#3	2-660-401-01	SCREW (M1.7), NEW TRU-STAR, P2 (Red)
#12	3-080-204-21	SCREW, TAPPING, P2 (Black)

5-2. ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description
	A-1650-369-A	CK-214 BOARD, COMPLETE
		**********
		< CONNECTOR >
* CN5801	1-818-072-61	CONNECTOR, FFC/FPC (ZIF) 30P
* CN5802	1-816-655-51	FFC/CONNECTOR, FPC (LIF) 8P
CN5803	1-815-031-51	FFC/CONNECTOR, FPC (ZIF) 24P
CN5804	1-778-506-21	PIN, CONNECTOR (PC BOARD) 2P
		< COMPOSITION CIRCUIT BLOCK >
RB5801	1-234-375-21	RES, NETWORK 1K (1005X4)
RB5802	1-234-376-11	RES, NETWORK 2.2K (1005X4)

	A-1671-378-A	CM-102 BOARD, COMPLETE			
		**********			
	(IC6904 (CMOS imager) is not supplied, but this is included in CM-102 complete board.)				
		< CAPACITOR >			
C6906	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C6909	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C6910	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C6911	1-165-884-11	CERAMIC CHIP	2.2uF	10%	6.3V
C6912	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C6913	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C6914	1-165-884-11	CERAMIC CHIP	2.2uF	10%	6.3V
C6915	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C6916	1-165-884-11	CERAMIC CHIP	2.2uF	10%	6.3V
C6917	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C6918	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C6919	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C6920	1-165-884-11	CERAMIC CHIP	2.2uF	10%	6.3V
C6921	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C6923	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C6924	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C6925	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C6926	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C6927	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C6928	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C6929	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C6930	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C6932	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C6933	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C6940	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C6941	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C6943	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
		< CONNECTOR >			
* CN6901	1-821-501-11	CONNECTOR, FPC (ZIF) 51P			
		< IC >			
* IC6903	6-708-455-01	IC R1114Q271D-TR-FA			
IC6904	(Not supplied)	ASM030MR-CB-A (Note)			
	(IC6904 is supplied including in CM-102 complete board.)				

• Refer to page 5-1 for mark ⚠.

Ref. No.	Part No.	Description
		< LINE FILTER >
* LF6901	1-457-648-21	COMMON MODE CHOKE COIL
* LF6902	1-457-648-21	COMMON MODE CHOKE COIL
* LF6903	1-457-648-21	COMMON MODE CHOKE COIL
* LF6904	1-457-648-21	COMMON MODE CHOKE COIL
* LF6905	1-457-648-21	COMMON MODE CHOKE COIL
		< RESISTOR >
R6912	1-218-953-11	METAL CHIP 1K 5% 1/16W
R6916	1-218-941-81	METAL CHIP 100 5% 1/16W
R6918	1-208-927-11	METAL CHIP 47K 0.5% 1/16W

	A-1650-370-A	HD-040 BOARD, COMPLETE			
		**********			
		< CONNECTOR >			
* CN8501	1-820-586-61	CONNECTOR, FFC/FPC 28P			
CN8502	1-821-724-21	CONNECTOR, SQUARE TYPE (USB) 5P			
CN8503	1-821-166-21	HDMI CONNECTOR (HDMI OUT)			
		< LINE FILTER >			
LF8505	1-457-223-11	COMMON MODE CHOKE COIL			
		< RESISTOR >			
R8501	1-218-965-11	METAL CHIP	10K	5%	1/16W

	A-1650-371-A	JK-386 BOARD, COMPLETE			
		**********			
	(BT7201 (lithium battery) is not included in JK-386 complete board.)				
		< BATTERY HOLDER >			
⚠ BH7201	1-251-928-21	SOCKET, BATTERY			
		< BATTERY >			
⚠ BT7201	1-756-134-12	BATTERY, STORAGE, LITHIUM			
		< CAPACITOR >			
C6603	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C6604	1-137-987-81	CERAMIC CHIP	0.068uF	10%	10V
C6605	1-164-942-11	CERAMIC CHIP	0.0068uF	10%	16V
C6606	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C6607	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V

Note: Be sure to read “Precautions for Replacement of Imager” on page 4-2 when changing the imager.

Note: イメージャの交換時は4-3ページの“イメージャ交換時の注意”を必ずお読みください。

CAUTION
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.
Dispose of used batteries according to the instructions.

注意
電池の交換は，正しく行わないと破裂する恐れがあります。
電池を交換する場合には必ず同じ型名の電池又は同等品と交換してください。
使用済み電池は，取扱指示に従って処分してください。

Ref. No.	Part No.	Description			
C6608	1-127-988-81	CERAMIC CHIP	0.015uF	10%	16V
C6609	1-137-987-81	CERAMIC CHIP	0.068uF	10%	10V
C6610	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C6611	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C6612	1-127-988-81	CERAMIC CHIP	0.015uF	10%	16V
C6613	1-164-942-11	CERAMIC CHIP	0.0068uF	10%	16V
		< CONNECTOR >			
* CN7201	1-820-586-61	CONNECTOR, FFC/FPC 28P			
* CN7202	1-816-646-51	FFC/CONNECTOR, FPC (LIF) 16P			
CN7203	1-815-794-13	CONNECTOR (MULTIPLE) (A/V R)			
		< DIODE >			
D7201	8-719-084-17	DIODE EMZ6.8ET2R			
		< FERRITE BEAD >			
FB7201	1-500-238-11	BEAD, FERRITE (CHIP) (1608)			
FB7202	1-500-238-11	BEAD, FERRITE (CHIP) (1608)			
		< COIL >			
L6601	1-400-588-11	INDUCTOR	10uH		
		< RESISTOR >			
R6602	1-218-985-11	METAL CHIP	470K	5%	1/16W
R6603	1-218-985-11	METAL CHIP	470K	5%	1/16W
R7206	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R7208	1-218-942-11	METAL CHIP	120	5%	1/16W
R7209	1-218-945-11	METAL CHIP	220	5%	1/16W
R7210	1-218-990-81	SHORT CHIP	0		
		< SWITCH >			
S7201	1-786-723-11	SWITCH, TACTILE (RESET)			
		< SENSOR >			
SE6601	1-480-781-61	SENSOR, ANGULAR VELOCITY (PITCH/YAW)			
		< VARISTOR >			
* VD7203	1-802-251-21	CHIP VARISTOR			
* VD7204	1-802-251-21	CHIP VARISTOR			
* VD7205	1-802-251-21	CHIP VARISTOR			
* VD7206	1-802-251-21	CHIP VARISTOR			
* VD7207	1-802-251-21	CHIP VARISTOR			

Electrical parts list of the LD-247 board is not shown.
Page 5-11 is not shown.

Ref. No.	Part No.	Description
	A-1650-372-A	MS-419 BOARD, COMPLETE
		**********
		(CN7304 (card connector) is not supplied, but this is included in MS-419 complete board.)
		(MS7304 (internal memory) is not included in MS-419 complete board.)
		< CONNECTOR >
* CN7301	1-822-378-11	CONNECTOR, FPC (ZIF) 33P
* CN7302	1-819-990-21	MEMORY STICK DUO CONNECTOR 10P
CN7303	1-778-506-21	PIN, CONNECTOR (PC BOARD) 2P
CN7304	(Not supplied)	CONNECTOR, CARD (M2)
		(CN7304 is supplied including in MS-419 complete board.)
		< DIODE >
D7301	6-501-638-01	DIODE CL-271HR-C-TSL (MS ACCESS)
		< FERRITE BEAD >
FB7301	1-469-580-21	INDUCTOR, FERRITE BEAD (1005)
FB7302	1-469-580-21	INDUCTOR, FERRITE BEAD (1005)
FB7303	1-469-580-21	INDUCTOR, FERRITE BEAD (1005)
FB7304	1-469-580-21	INDUCTOR, FERRITE BEAD (1005)
FB7305	1-469-580-21	INDUCTOR, FERRITE BEAD (1005)
FB7306	1-469-580-21	INDUCTOR, FERRITE BEAD (1005)
FB7307	1-469-580-21	INDUCTOR, FERRITE BEAD (1005)
FB7308	1-469-580-21	INDUCTOR, FERRITE BEAD (1005)
		< MEMORY STICK >
MS7304	1-840-234-11	MEMORY STICK (8GB) (CX100/CX100E/CX105E/CX106E) (Note)
MS7304	1-840-234-21	MEMORY STICK (16GB) (CX120) (Note)
		< RESISTOR >
R7301	1-218-942-11	METAL CHIP 120 5% 1/16W
R7302	1-218-942-11	METAL CHIP 120 5% 1/16W
R7303	1-218-942-11	METAL CHIP 120 5% 1/16W
R7304	1-218-942-11	METAL CHIP 120 5% 1/16W
R7305	1-218-947-11	METAL CHIP 330 5% 1/16W
R7306	1-218-942-11	METAL CHIP 120 5% 1/16W
R7307	1-218-942-11	METAL CHIP 120 5% 1/16W
R7308	1-218-942-11	METAL CHIP 120 5% 1/16W
R7309	1-218-942-11	METAL CHIP 120 5% 1/16W
	A-1650-373-A	OC-019 BOARD, COMPLETE
		**********
		< CONNECTOR >
CN8601	1-794-057-21	PIN, CONNECTOR (PC BOARD) 2P
		< SWITCH >
* S8601	1-786-545-41	SWITCH, PUSH LEVER (S) (PANEL OPEN/CLOSE)

Note: When replacing the internal memory (MS7304 that has been inserted in the MS-419 board), start the Adjust Manual in the Adjust Station and execute the “INTERNAL MEMORY ADJUSTMENTS”.

Note: 内蔵メモリー（MS-419基板に挿入されたMS7304）を交換の際は，Adjust StationからAdjust Manualを起動させて「INTERNAL MEMORY ADJUSTMENTS」を実行させてください。

Ref. No.	Part No.	Description
	A-1650-374-A	PD-384 BOARD, COMPLETE
		**********
		< CAPACITOR >
C6101	1-100-581-81	CERAMIC CHIP 0.0047uF 10% 50V
C6102	1-100-581-81	CERAMIC CHIP 0.0047uF 10% 50V
C6103	1-165-989-11	CERAMIC CHIP 10uF 10% 6.3V
C6104	1-119-750-11	TANTAL. CHIP 22uF 20% 6.3V
C6105	1-165-908-11	CERAMIC CHIP 1uF 10% 10V
C6108	1-100-567-81	CERAMIC CHIP 0.01uF 10% 25V
C6109	1-100-567-81	CERAMIC CHIP 0.01uF 10% 25V
C6110	1-100-567-81	CERAMIC CHIP 0.01uF 10% 25V
C6113	1-127-760-11	CERAMIC CHIP 4.7uF 10% 6.3V
C6114	1-125-889-11	CERAMIC CHIP 2.2uF 10% 10V
C6116	1-165-989-11	CERAMIC CHIP 10uF 10% 6.3V
C6117	1-165-908-11	CERAMIC CHIP 1uF 10% 10V
C6118	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
* C6119	1-100-741-81	CERAMIC CHIP 560PF 5% 50V
C6121	1-165-908-11	CERAMIC CHIP 1uF 10% 10V
C6125	1-100-567-81	CERAMIC CHIP 0.01uF 10% 25V
C6126	1-100-567-81	CERAMIC CHIP 0.01uF 10% 25V
C6127	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C6128	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C6129	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
		< CONNECTOR >
CN6101	1-815-031-51	FFC/CONNECTOR, FPC (ZIF) 24P
* CN6102	1-794-322-51	FFC/CONNECTOR, FPC (ZIF) 6P
CN6103	1-691-370-51	CONNECTOR, FFC/FPC (ZIF) 6P
* CN6105	1-819-913-71	CONNECTOR, FPC (ZIF) 24P
		< DIODE >
D6104	6-502-150-01	DIODE MA2SD320G8S0
D6105	6-502-150-01	DIODE MA2SD320G8S0
* D6106	6-501-597-01	DIODE NSSW008DT-T108 (BACKLIGHT)
* D6107	6-501-597-01	DIODE NSSW008DT-T108 (BACKLIGHT)
* D6108	6-501-597-01	DIODE NSSW008DT-T108 (BACKLIGHT)
		< IC >
* IC6101	6-710-240-01	IC IR3Y65M4
		< COIL >
L6101	1-400-588-11	INDUCTOR 10uH
L6102	1-400-588-11	INDUCTOR 10uH
L6103	1-400-588-11	INDUCTOR 10uH
		< TRANSISTOR >
Q6101	8-729-427-37	TRANSISTOR XP411F-TXE
Q6102	8-729-427-67	TRANSISTOR XP421F-TXE
Q6107	6-550-150-01	TRANSISTOR SSM3J09FU (TE85L)
Q6108	6-550-119-01	TRANSISTOR DTC144EMFS6T2L
Q6110	8-729-053-84	TRANSISTOR SSM3KO9FU (T5LSONY1)
Q6111	6-551-184-01	TRANSISTOR MCH6305-TL-E-S
Q6112	6-551-184-01	TRANSISTOR MCH6305-TL-E-S
		< RESISTOR >
R6101	1-218-957-11	METAL CHIP 2.2K 5% 1/16W
R6102	1-218-955-11	METAL CHIP 1.5K 5% 1/16W

Ref. No.	Part No.	Description			
R6105	1-218-954-11	METAL CHIP	1.2K	5%	1/16W
R6111	1-218-936-11	METAL CHIP	39	5%	1/16W
R6112	1-218-965-11	METAL CHIP	10K	5%	1/16W
R6115	1-218-975-11	METAL CHIP	68K	5%	1/16W
R6119	1-208-935-11	METAL CHIP	100K	0.5%	1/16W
R6120	1-208-911-11	METAL CHIP	10K	0.5%	1/16W
R6141	1-218-981-91	METAL CHIP	220K	5%	1/16W
		< COMPOSITION CIRCUIT BLOCK >			
RB6102	1-234-381-21	RES, NETWORK	100K (1005X4)		
		< SENSOR >			
* SE6102	1-487-118-11	GMR SENSOR			

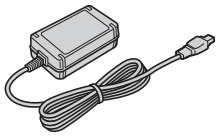
Electrical parts list of the VC-559 board is not shown.
Pages from 5-14 to 5-18 are not shown.

• EXCEPT J MODEL

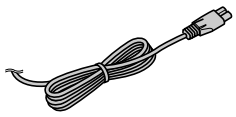
Checking supplied accessories.

to J MODEL

Note: This item is supplied with the unit as an accessory, but is not prepared as a service part.

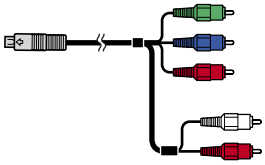


AC Adaptor
(AC-L200C/L200D)
⚠ 1-487-150-21

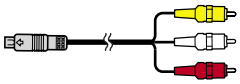


Power Cord
⚠ 1-832-121-41 (CH)
⚠ 1-832-169-41 (UK, HK)
⚠ 1-833-892-41 (KR)
⚠ 1-834-482-31 (AEP, NE, E: PAL)
⚠ 1-834-484-31 (US, CND)
⚠ 1-834-852-11 (E: NTSC)
⚠ 1-835-983-11 (AUS)
⚠ 1-836-251-11 (JE)

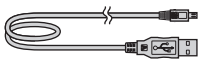
Conversion (2P) Adaptor
⚠ 1-569-007-12
(E: NTSC, JE)



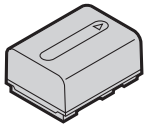
Component A/V Cable
1-834-646-11



A/V Connecting Cable
1-823-156-51



USB Cable
1-829-868-31



Rechargeable Battery Pack
NP-FH50
(Note)

• Refer to page 5-1 for mark ⚠.

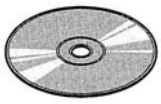
Operating Guide

HDR-CX100

4-129-506-11 (ENGLISH, SPANISH) (US, CND, E, JE)
4-129-506-21 (FRENCH) (CND)
4-129-506-31 (PORTUGUESE) (E, JE)
4-129-506-41 (TRADITIONAL CHINESE) (E)
4-129-506-51 (KOREAN) (KR, JE)

HDR-CX100E/CX105E/CX106E

4-129-507-11 (ENGLISH) (AEP, UK, E, HK, AUS, JE)
4-129-507-21 (FRENCH, GERMAN, ITALIAN, DUTCH) (AEP, E)
4-129-507-31 (SPANISH, PORTUGUESE, TURKISH, GREEK) (AEP)
4-129-507-41 (CZECH, HUNGARIAN, SLOVAK, POLISH) (AEP)
4-129-507-51 (SWEDISH, DANISH, FINNISH, ROMANIAN) (AEP)
4-129-507-61 (RUSSIAN, UKRAINIAN) (NE, JE)
4-129-507-71 (TRADITIONAL CHINESE) (HK)
4-129-507-81 (SIMPLIFIED CHINESE) (E, JE)
4-129-507-91 (ARABIC, PERSIAN) (E)
4-134-156-11 (SIMPLIFIED CHINESE) (CH)



CD-ROM
“Handycam Application Software”
(“PMB” (Software, including “PMB Guide”)/
“Handycam Handbook” (PDF))
4-133-508-01

Handycam Handbook (PDF)

The CD-ROM supplied contains all of language version of the Handycam Handbook (PDF) for printing.
- The printed matter is not supplied. If required, please order it with the part number below.
- (Only for destination Japanese model)
  日本国内については日本語のみが印刷での部品供給可能です。

HDR-CX100

* 4-129-504-11 (ENGLISH)
* 4-129-504-21 (FRENCH)
* 4-129-504-31 (SPANISH)
* 4-129-504-41 (PORTUGUESE)
* 4-129-504-51 (TRADITIONAL CHINESE)
* 4-129-504-61 (KOREAN)

HDR-CX100E/CX105E/CX106E

* 4-129-505-11 (ENGLISH)
* 4-129-505-21 (FRENCH)
* 4-129-505-31 (GERMAN)
* 4-129-505-41 (ITALIAN)
* 4-129-505-51 (DUTCH)
* 4-129-505-61 (SPANISH)
* 4-129-505-71 (PORTUGUESE)
* 4-129-505-81 (TURKISH)
* 4-129-505-91 (GREEK)
* 4-134-153-11 (CZECH)
* 4-134-153-21 (HUNGARIAN)
* 4-134-153-31 (SLOVAK)
* 4-134-153-41 (POLISH)
* 4-134-153-51 (SWEDISH)
* 4-134-153-61 (DANISH)
* 4-134-153-71 (FINNISH)
* 4-134-153-81 (ROMANIAN)
* 4-134-153-91 (RUSSIAN)
* 4-134-154-11 (UKRAINIAN)
* 4-134-154-21 (TRADITIONAL CHINESE)
* 4-134-154-31 (SIMPLIFIED CHINESE)
* 4-134-154-41 (ARABIC)
* 4-134-154-51 (PERSIAN)
* 4-134-154-61 (MALAY)
* 4-134-154-71 (INDONESIAN)
* 4-134-154-81 (THAI)

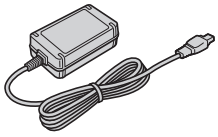
HDR-CX120

4-129-504-01 (JAPANESE)

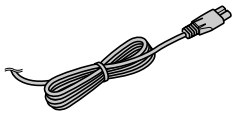
• J MODEL

付属品

Note：当商品はアクセサリーとして同梱されておりますが
サービス用補修部品としては準備しておりません。

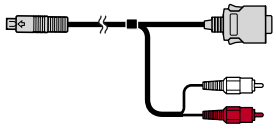


ACアダプター
(AC-L200C/L200D)
⚠ 1-487-150-21

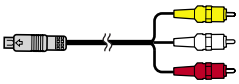


電源コード
⚠ 1-836-251-11

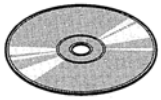
取扱説明書
4-129-506-01 (日本語)



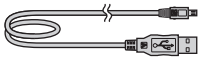
D端子A/Vケーブル
1-834-646-21



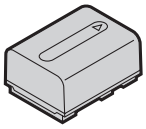
A/V接続ケーブル
1-823-156-51



CD-ROM
「Handycam Application Software」
(「Picture Motion Browser」(ソフトウェア)/
「PMB」(「PMBガイド」を含むソフトウェア)/
「ハンディカムハンドブック」(PDF))
4-133-508-01



USBケーブル
1-829-868-31



リチャージャブルバッテリー
パック NP-FH50
(Note)

ハンディカムハンドブック (PDF)

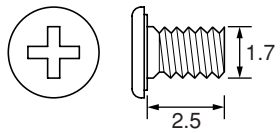
印刷用のハンディカム　ハンドブック（PDF）は
全ての言語が付属品のCD-ROMに含まれています。
・印刷物は付属されておりません。
必要な場合は下記部品番号にて注文となります。

4-129-504-01 (日本語)

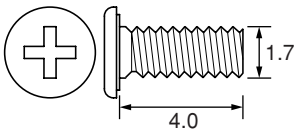
• ⚠マークについては，5-1ページを参照して下さい。

HARDWARE LIST (1/8)

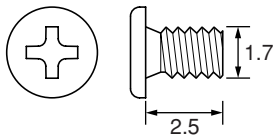
#1: M1.7 X 2.5
(Black)
2-635-562-11



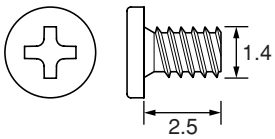
#2: M1.7 X 4.0
(Black)
2-635-562-31



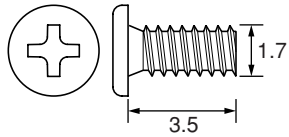
#3: M1.7 X 2.5
(Red)
2-660-401-01



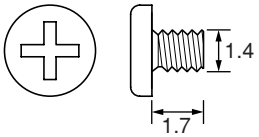
#4: M1.4 X 2.5 (Tapping)
(Dark Silver)
3-348-998-81



#5: M1.7 X 3.5 (Tapping)
(Black)
3-080-204-01



#6: M1.4 X 1.7
(Silver)
2-598-474-01



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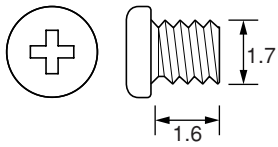
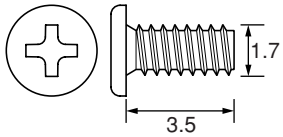
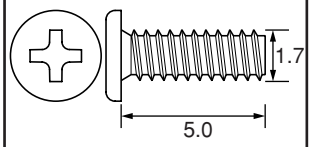
(Black)
7-627-552-18



#8: M1.7 X 3.5 (Tapping)
(Silver)
3-078-890-01



#9: M1.7 X 5.0 (Tapping)
(Silver)
3-078-890-21



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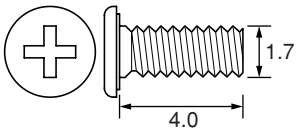
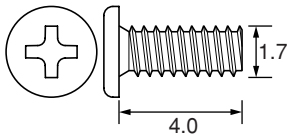
(Silver)
2-599-475-31



#11: M1.7 X 4.0 (Tapping)
(Silver)
3-078-890-11



#12: M1.7 X 5.0 (Tapping)
(Black)
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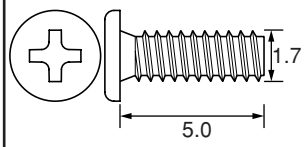
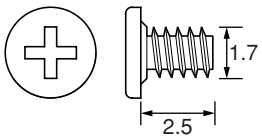
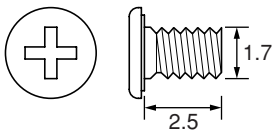


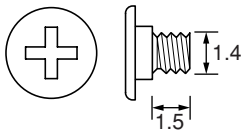
#13: M1.7 X 2.5 (Tapping)
(Silver)
3-085-397-01



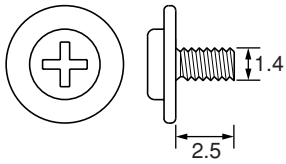
#14: M1.7 X 2.5
(Silver)
2-599-475-11



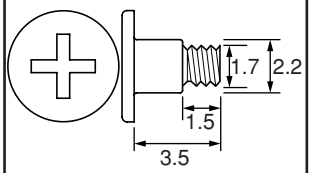
#15: M1.4 X 1.5
(Silver)
3-062-214-01



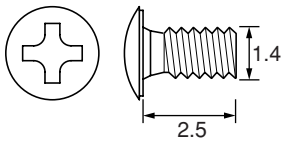
#16: M1.4 X 2.5
(Silver)
2-586-337-01



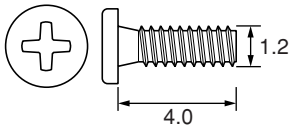
#17: M1.7 X 1.5
(Silver)
2-586-389-01



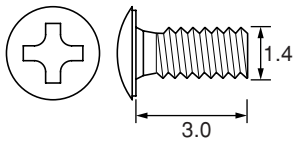
#18: M1.4 X 2.5
(Silver)
2-635-591-21



#19: M1.2 X 4.0 (Tapping)
(Red)
3-086-156-21

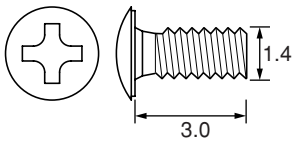


#20: M1.4 X 3.0
(Silver)
2-635-591-31

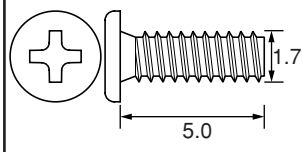


HARDWARE LIST (2/8)

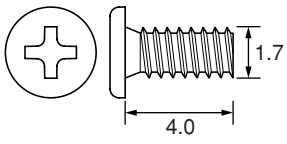
#21: M1.4 X 3.0
(Black)
2-662-396-21



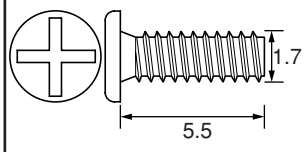
#22: M1.7 X 5.0 (Tapping)
(Silver)
3-083-261-01



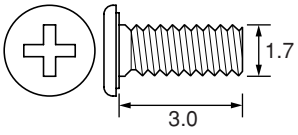
#23: M1.7 X 4.0 (Tapping)
(Black)
3-080-204-11



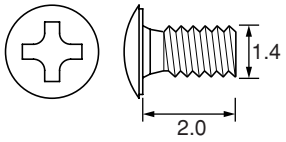
#24: B1.7 X 5.5 (Tapping)
(Black)
4-679-805-11



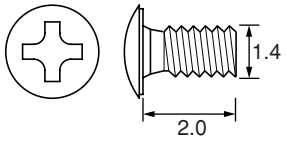
#25: M1.7 X 3.0
(Black)
2-635-562-21



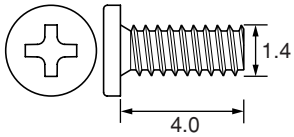
#26: M1.4 X 2.0
(Silver)
2-635-591-11



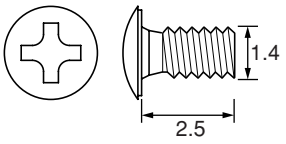
#27: M1.4 X 2.0
(Black)
2-662-396-11



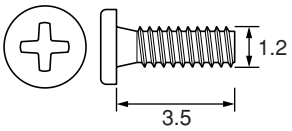
#28: M1.4 X 4.0 (Tapping)
(Silver)
3-348-998-61



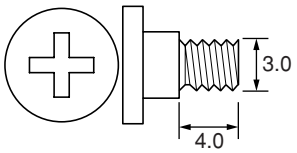
#29: M1.4 X 2.5
(Black)
2-662-396-01



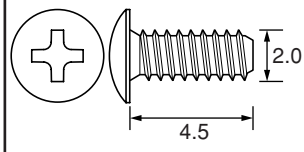
#30: M1.2 X 3.5 (Tapping)
(White)
3-086-156-11



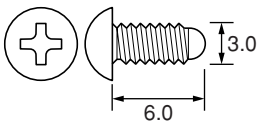
#31: M3.0 X 4.0
(Silver)
2-102-434-01



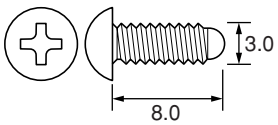
#32: M2.0 X 4.5 (Tapping)
(Silver)
2-102-498-01



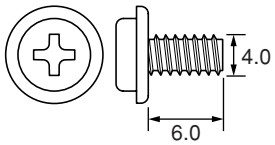
#33: M3.0 X 6.0
(Silver)
3-077-331-21



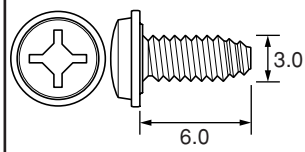
#34: M3.0 X 8.0
(Black)
3-077-331-41



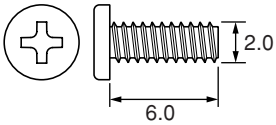
#35: M4.0 X 6.0 (Tapping)
(Silver)
3-975-291-02



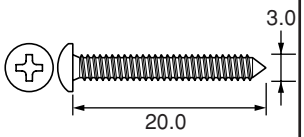
#36: M3.0 X 6.0
(Silver)
4-886-821-11



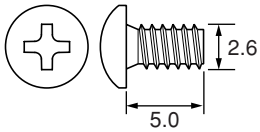
#37: M2.0 X 6.0 (Tapping)
(Black)
3-080-206-31



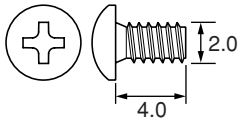
#38: M3.0 X 20.0 (Tapping)
(Silver)
7-685-651-79



#39: M2.6 X 5.0 (Tapping)
(Black)
7-685-791-09



#40: M2.0 X 4.0 (Tapping)
(Silver)
7-685-851-04



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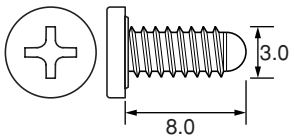
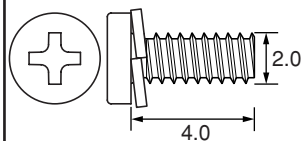
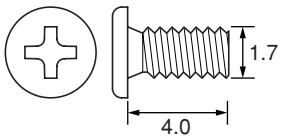
#41: M3.0 X 8.0 (Tapping)
(Silver)
3-065-748-01



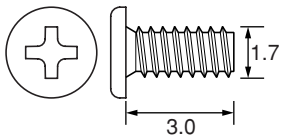
#42: M2.0 X 4.0 (Tapping)
(Silver)
7-628-253-00



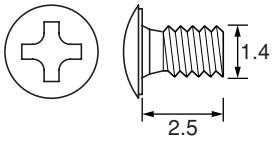
#43: M1.7 X 4.0
(Red)
2-660-401-31



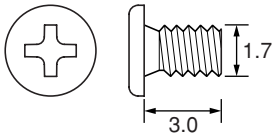
#44: M1.7 X 3.0 (Tapping)
(Silver)
3-078-890-61



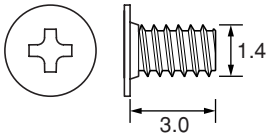
#45: M1.4 X 2.5
(Silver)
2-587-151-01



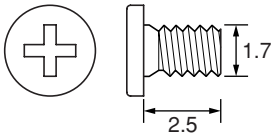
#46: M1.7 X 3.0
(Red)
2-660-401-11



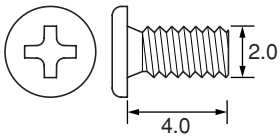
#47: M1.4 X 3.0 (Tapping)
(Silver)
2-665-774-01



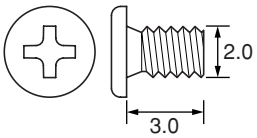
#48: M1.7 X 2.5
(Silver)
3-973-497-91



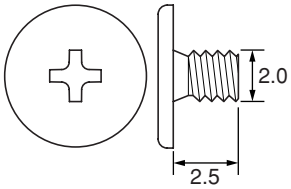
#49: M2.0 X 4.0
(Black)
2-630-005-31



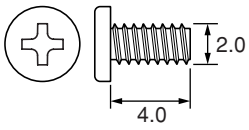
#50: M2.0 X 3.0
(Red)
2-891-494-11



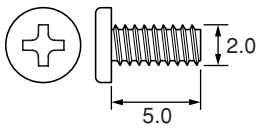
#51: M2.0 X 2.5
(Silver)
3-073-686-01



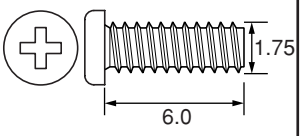
#52: M2.0 X 4.0 (Tapping)
(Black)
3-080-206-11



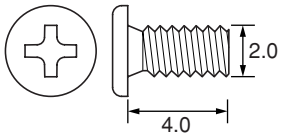
#53: M2.0 X 5.0 (Tapping)
(Black)
3-080-206-21



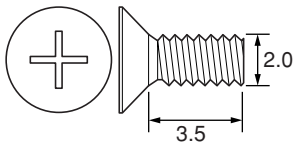
#54: M1.75 X 6.0 (Tapping)
(Black)
3-318-203-11



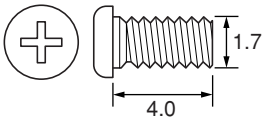
#55: M2.0 X 4.0
(Silver)
2-655-582-11



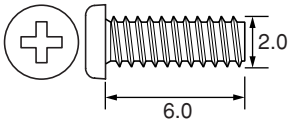
#56: M2.0 X 3.5
(Silver)
3-067-187-11



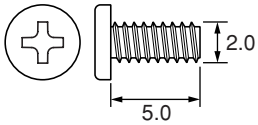
#57: M1.7 X 4.0
(Black)
7-627-852-18



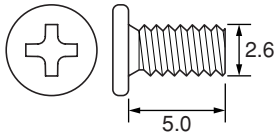
#58: M2.0 X 6.0 (Tapping)
(Silver)
3-719-408-11



#59: M2.0 X 5.0 (Tapping)
(Silver)
3-080-205-21



#60: M2.6 X 5.0
(Black)
3-061-062-11



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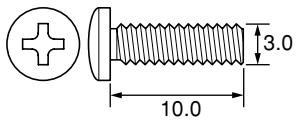
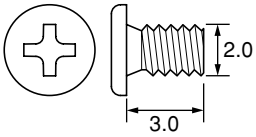
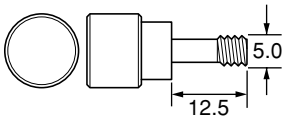
#61: M3.0 X 10.0
(Black)
7-682-549-09



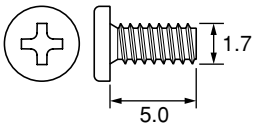
#62: M2.0 X 3.0
(Silver)
3-080-202-21



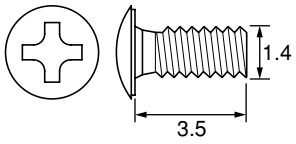
#63: M5.0 X 12.5
(Black)
3-060-811-21



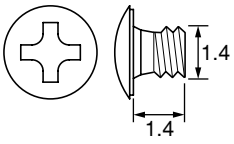
#64: M1.7 X 5.0 (Tapping)
(Silver)
2-666-551-21



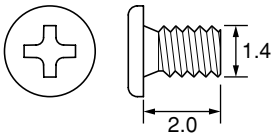
#65: M1.4 X 3.5
(Silver)
2-635-591-01



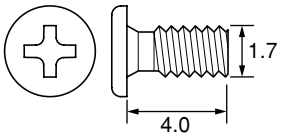
#66: M1.4 X 1.4
(Silver)
2-635-591-41



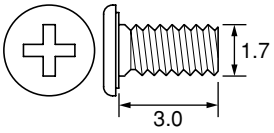
#67: M1.4 X 2.0
(Silver)
3-389-523-16



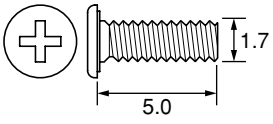
#68: M1.7 X 4.0
(Silver)
2-655-581-01



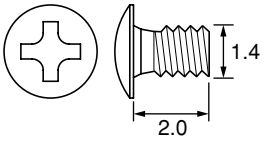
#69: M1.7 X 3.0
(Silver)
2-599-475-21



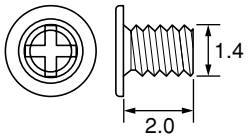
#70: M1.7 X 5.0
(Silver)
2-599-475-41



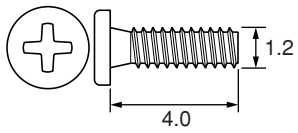
#71: M1.4 X 2.0
(Red)
3-208-537-01



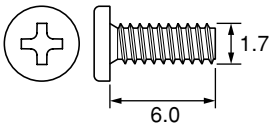
#72: M1.4 X 2.0
(Silver)
4-663-621-41



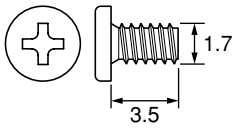
#73: M1.2 X 4.0 (Tapping)
(Black)
3-086-156-61



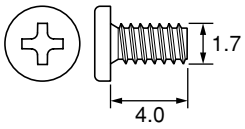
#74: M1.7 X 6.0 (Tapping)
(Silver)
2-666-551-31



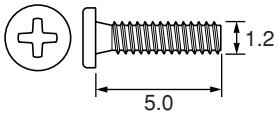
#75: M1.7 X 3.5 (Tapping)
(Silver)
2-666-551-01



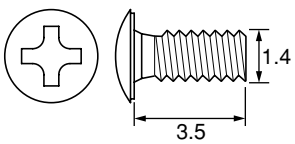
#76: M1.7 X 4.0 (Tapping)
(Silver)
2-666-551-11



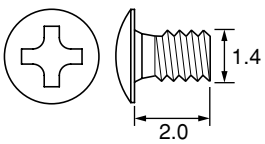
#77: M1.2 X 5.0 (Tapping)
(Silver)
3-086-156-31



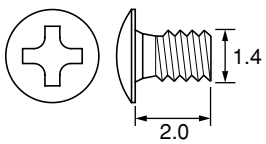
#78: M1.4 X 3.5
(Red)
3-208-537-11



#79: M1.4X 2.0
(Silver)
2-587-151-11

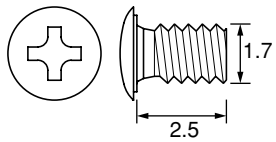


#80: M1.4X 2.0
(Black)
3-279-411-01

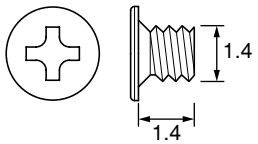


HARDWARE LIST (5/8)

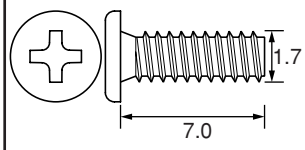
#81: M1.7 X 2.5
(Silver)
2-515-756-01



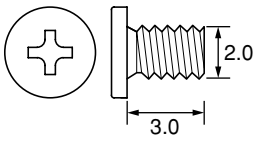
#82: M1.4 X 1.4
(Silver)
3-272-251-01



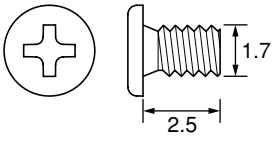
#83: M1.7 X 7.0 (Tapping)
(Black)
3-080-204-41



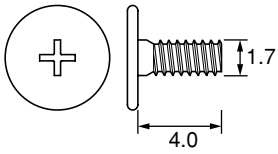
#84: M2.0 X 3.0
(Silver)
3-072-453-11



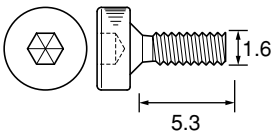
#85: M1.7 X 2.5
(Black)
2-515-483-11



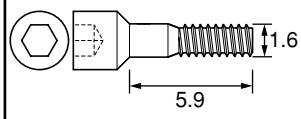
#86: M1.7 X 4.0 (Tapping)
(Silver)
2-695-434-21



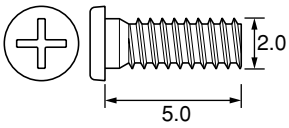
#87: M1.6 X 5.3
(Black)
2-689-328-01



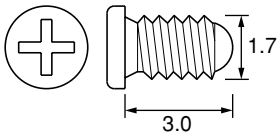
#88: M1.6 X 5.9 (Tapping)
(Silver)
2-689-015-01



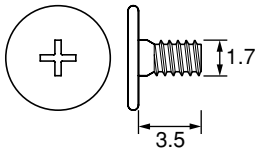
#89: M2.0 X 5.5 (Tapping)
(Silver)
2-695-575-01



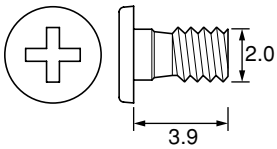
#90: M1.7 X 3.0
(Silver)
3-271-395-01



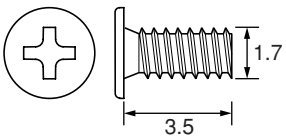
#91: M1.7 X 3.0 (Tapping)
(Silver)
2-695-434-11



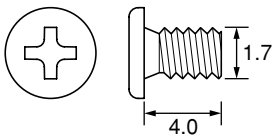
#92: M2.0 X 3.9
(Black)
3-268-954-01



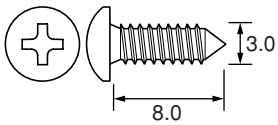
#93: M1.7 X 3.5 (Tapping)
(Silver)
3-254-082-01



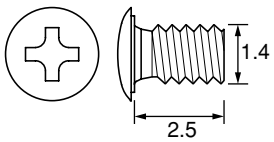
#94: M1.7 X 4.0
(Black)
2-515-483-31



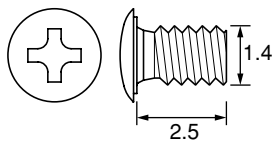
#95: M3.0 X 8.0 (Tapping)
(Black)
7-685-646-79



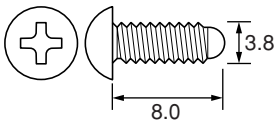
#96: M1.4 X 2.5
(Silver)
2-587-151-21



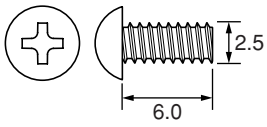
#97: M1.4 X 2.5
(Black)
2-662-396-31



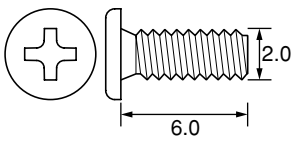
#98: M3.0 X 8.0
(Silver)
3-077-331-01



#99: M2.5 X 6.0 (Tapping)
(Silver)
3-776-750-02

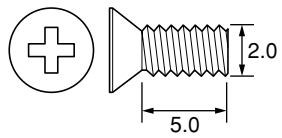


#100: M2.0 X 6.0
(Black)
3-080-203-51

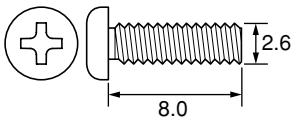


HARDWARE LIST (6/8)

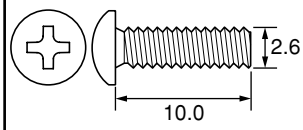
#101: M2.0 X 5.0
(Silver)
7-621-555-39



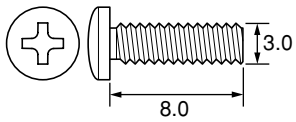
#102: M2.6 X 8.0
(Black)
7-621-284-30



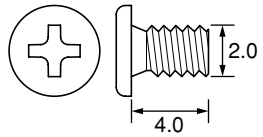
#103: M2.6 X 10.0
(Silver)
7-685-794-09



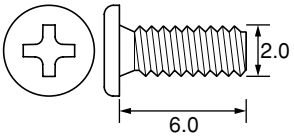
#104: M3.0 X 8.0
(Black)
7-682-548-09



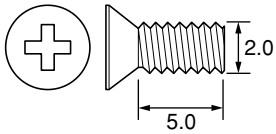
#105: M2.0 X 4.0
(Red)
2-891-494-31



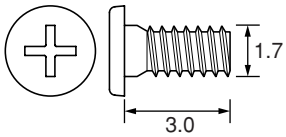
#106: M2.0 X 6.0
(Black)
3-713-786-11



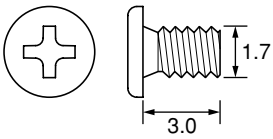
#107: M2.0 X 5.0
(Silver)
3-032-750-01



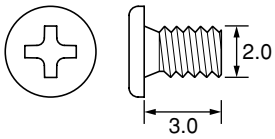
#108: M1.7 X 3.0 (Tapping)
(Black)
2-695-430-01



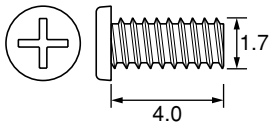
#109: M1.7 X 3.0
(Black)
2-515-483-21



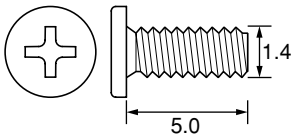
#110: M2.0 X 3.0
(Black)
2-630-005-21



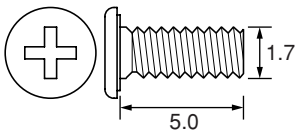
#111: M1.7 X 4.0 (Tapping)
(Black)
2-887-124-01



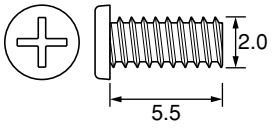
#112: M1.4 X 5.0
(Black)
2-178-410-11



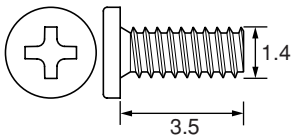
#113: M1.7 X 5.0
(Black)
2-635-562-41



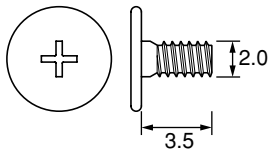
#114: M2.0 X 5.5 (Tapping)
(Silver)
2-698-464-01



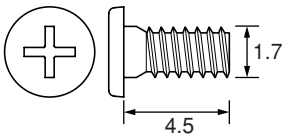
#115: M1.4 X 3.5 (Tapping)
(Silver)
3-348-998-51



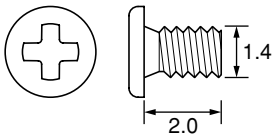
#116: M2.0 X 3.5 (Tapping)
(Silver)
2-695-435-01



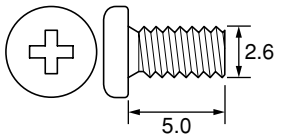
#117: M1.7 X 4.5 (Tapping)
(Silver)
2-695-429-31



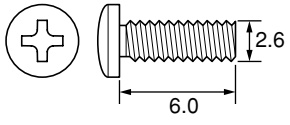
#118: M1.4 X 2.0
(Black)
2-655-580-01



#119: M2.6 X 5.0
(Black)
7-627-556-58

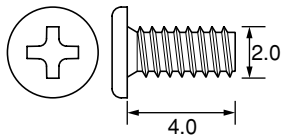


#120: M2.6 X 6.0
(Silver)
7-621-770-67

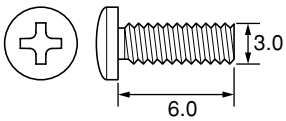


HARDWARE LIST (7/8)

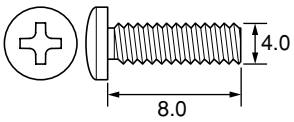
#121: M2.0 X 4.0 (Tapping)
(Silver)
3-080-205-11



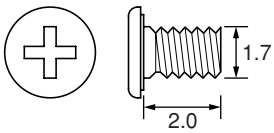
#122: M3.0 X 6.0
(Black)
7-682-547-09



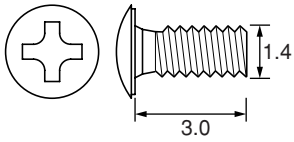
#123: M4.0 X 8.0
(Black)
7-682-561-09



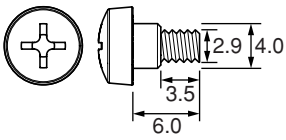
#124: M1.7 X 2.0
(Silver)
2-599-475-01



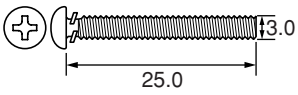
#125: M1.4 X 3.0
(Black)
3-291-847-01



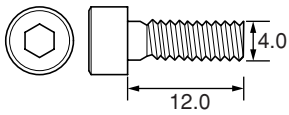
#126: M2.9 X 3.5
(Black)
3-292-616-01



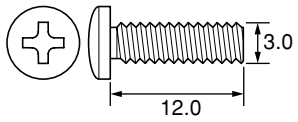
#127: M3.0 X 25.0
(Black)
7-682-654-09



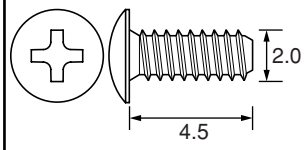
#128: M4.0 X 12.0
(Black)
3-452-472-01



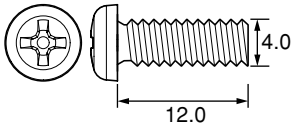
#129: M3.0 X 12.0
(Black)
7-682-550-09



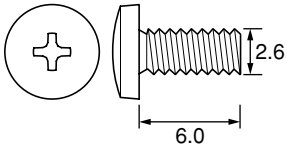
#130: M2.0 X 4.5 (Tapping)
(Silver)
3-732-817-11



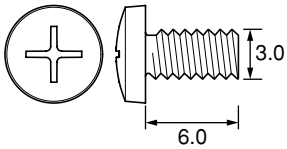
#131: M4.0 X 12.0
(Silver)
3-452-471-01



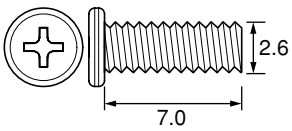
#132: M2.6 X 6.0
(Black)
4-673-655-01



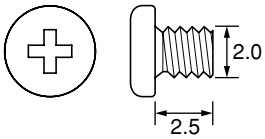
#133: M3.0 X 6.0
(Black)
3-452-484-01



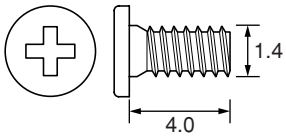
#134: M2.6 X 7.0
(Black)
3-299-572-01



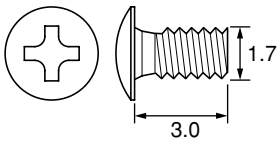
#135: M2.0 X 2.5
(Black)
7-627-553-28



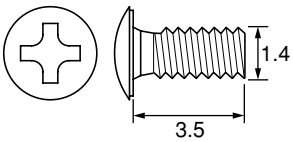
#136: M1.4 X 4.0 (Tapping)
(Black)
3-065-509-11



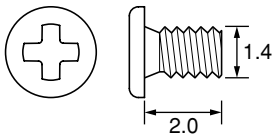
#137: M1.7 X 3.0
(Black)
3-090-976-62



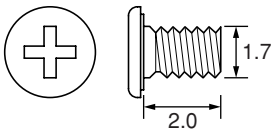
#138: M1.4 X 3.5
(Silver)
4-104-078-01



#139: M1.4 X 2.0
(Silver)
2-655-579-01

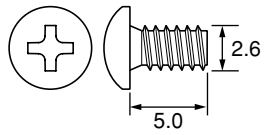


#140: M1.7 X 2.0
(Black)
2-635-562-01

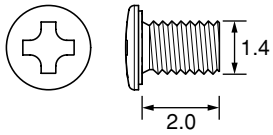


HARDWARE LIST (8/8)

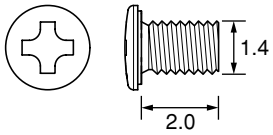
#141: M2.6 X 5.0 (Tapping)
(Silver)
7-685-791-01



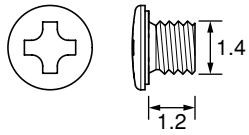
#142: M1.4 X 2.0
(Silver)
4-111-392-01



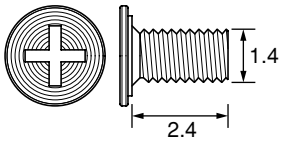
#143: M1.4 X 2.0
(Black)
4-111-392-11



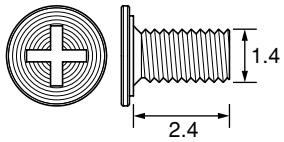
#144: M1.4 X 1.2
(Silver)
4-111-392-21



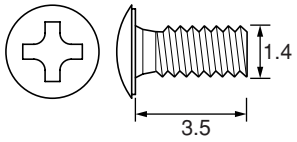
#145: M1.4 X 2.4
(Silver)
4-111-248-01



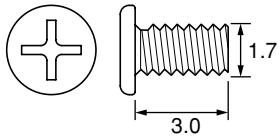
#146: M1.4 X 2.4
(Black)
4-111-248-11



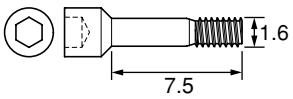
#147: M1.4 X 3.5
(Black)
2-662-396-41



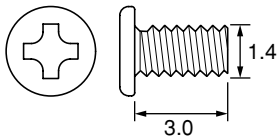
#148: M1.7 X 3.0
(Silver)
3-057-082-21



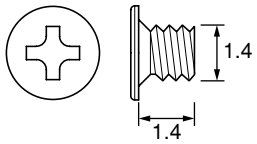
#149: M1.6 X 7.5 (Tapping)
(Silver)
4-115-505-01



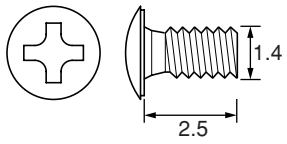
#150: M1.4 X 3.0
(Black)
4-105-150-01



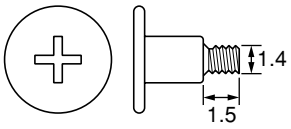
#151: M1.4 X 1.4
(Silver)
3-272-251-11



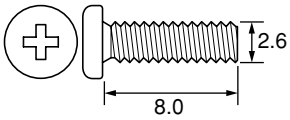
#152: M1.4 X 2.5
(Black)
4-116-473-11



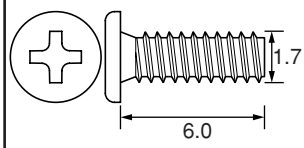
#153: M1.4 X 1.5
(Silver)
3-059-718-01



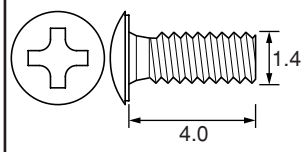
#154: M2.6 X 8.0
(Silver)
7-627-556-97



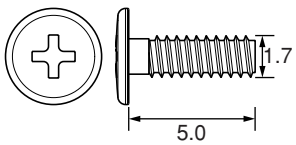
#155: M1.7 X 6.0 (Tapping)
(Black)
3-080-204-31



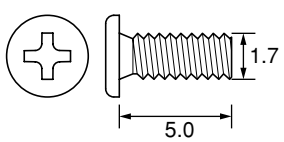
#156: M1.4 X 4.0
(Silver)
2-635-591-61



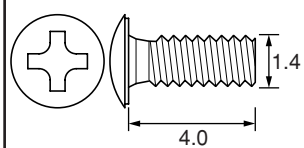
#157: M1.7 X 5.0 (Tapping)
(Black)
4-132-562-01



#158: M1.7 X 5.0
(Red)
2-660-401-51



#159: M1.4 X 4.0
(Black)
2-662-396-51



Revision History

Ver.	Date	History	Contents	S.M. Rev. issued
1.0	2009.01	Official Release	—	—
1.1	2009.02	Revised-1 A1 (DI08-340)	• Correction of Service Note • Correction of Repair Parts S.M. revised: Page 1-4, Page 1-9, Page 5-8, Page 5-9	Yes